

## **Tamil Nadu e-Governance Agency – Recruitment of Human Resources on Contract Basis**

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### **1. Senior Software Developer – Blockchain**

#### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology or related field.
- 3+ years of experience in enterprise software/solutions development in a highly technical and analytical role
- Should have hands-on experience working with Blockchain technology or Blockchain certification from IBM/Hyperledger/Edureka/Upgrad/Kerala Blockchain Academy or equivalent.
- Should have hands on experience with Hyperledger Fabric 1.4 or above

#### **Responsibilities:**

- Design, develop and deploy blockchain solutions leveraging globally accepted Blockchain and DLT platforms
- Translate the needs of the stakeholders and accordingly develop solutions incorporating Blockchain and non-Blockchain (off-chain) resources
- Coordinate with internal and external development teams and collaborate with stakeholders including government departments and citizens to develop and deploy solutions.
- Actively contribute to the creation of proposals and other documents for consulting and/or transformation engagements

#### **Technical Skills:**

- Experience developing and deploying enterprise pilot or production grade IT solutions for public and private sector in India or abroad
- Should have basic understanding of cryptography from an implementation point of view such as encryption mechanisms and hashing algorithms
- Should have a good understanding of fundamentals of Blockchain Technology
- Experience in a highly regulated industry such as Banking and Finance, Telecom, etc. will be preferred
- Hands-on experience with Hyperledger Fabric 1.4 and above is required. Experience with Hyperledger Fabric 2.0 and above will be preferred
- Project experience with NodeJS is required. Experience building ReactJS / AngularJS is desirable

- Understanding and hands-on experience with one or more of the below Blockchain or DLT platforms is desirable - Corda, Ethereum, Quorum, Stellar, Tendermint
- Understanding and hands of experience with one or more of the below tools/frameworks/libraries used in blockchain solutions is desirable – IPFS, Metamask, Trufflesuite, Open Zeppelin
- Hands-on experience with PostgreSQL is required. Experience with CouchDB and MongoDB is desirable.
- Should have hands-on experience in designing and deploying applications to on-premise/private/public cloud environments
- Knowledge and experience in defining, designing and implementing microservices and REST APIs.
- Knowledge of packaging, deployment and management of Docker and Kubernetes-based platforms and relevant use-cases and challenges

**Business Requirement:**

- Ability to develop and deploy innovative blockchain solutions for complex business and technology problems.
- Ability to work in development teams as a team player, comfortable with fast paced, changing environment and ambiguity
- Excellent interpersonal skills
- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects and meet deadlines

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/600/Senior%20Software%20Developer%20%E2%80%93%20Blockchain>

**2. Senior Technical Architect (Blockchain)**

**Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology or related field.

- 10+ years of experience in enterprise software/solutions development in a highly technical and analytical role
- 4+ years of experience designing and implementing technical architecture for enterprise IT solutions specifically SAAS based solutions
- 4+ years of proven experience working with with Blockchain framework/applications, cryptography and security concepts
- Should have project experience working with Hyperledger Fabric 1.4 or above and Ethereum.

### **Responsibilities:**

- Design enterprise grade Blockchain solutions that leverage globally accepted Blockchain and DLT platforms and address security and scalability concerns
- Translate the needs of the stakeholders and accordingly design the technical architecture and data flows incorporating Blockchain and non-Blockchain (off-chain) resources to devise the best possible solution
- Advise stakeholders (internal and external) and development teams on building secure, scalable and citizen centric solutions in line with advancements in the field of blockchain, cryptography and other technology domains
- Publication of domain-relevant white papers and thought leadership articles
- Actively contribute to the creation of project proposals, tenders, policies, standards and best practices, guidelines and other frameworks, tools and artefacts to guide the blockchain initiatives of TNeGA

### **Technical Skills:**

- Experience leading and working with a team for rolling out enterprise grade Blockchain solutions for public and private sector in India or abroad
- Should have understanding of basic cryptography from an implementation point of view including encryption mechanisms and hashing algorithms
- Should have good understanding of fundamentals of Blockchain Technology
- Should have experience designing and rolling out enterprise IT solutions specifically SAAS based solutions
- Experience in a highly regulated industry such as Banking and Finance, Telecom, etc. will be preferred

- Hands-on experience with Hyperledger Fabric 1.4 and above and Ethereum is required. Experience with Hyperledger Fabric 2.0 and above will be preferred
- Project experience with NodeJS is required. Experience with ReactJS / AngularJS is desirable
- Understanding of the below tools/frameworks/libraries used in blockchain solutions is required – IPFS, Metamask, Trufflesuite, Open Zeppelin.
- Project experience with PostgreSQL and CouchDB is required. Experience with MongoDB is desirable.
- Understanding and hands-on experience with one or more of the below Blockchain or DLT platforms is desirable - Corda, Quorum, Stellar, Tendermint
- Should have experience in designing applications for on-premise as well as private and public cloud environments.
- Knowledge and experience in defining, designing and implementing microservices and REST APIs.
- Knowledge and experience of packaging, deployment and management of Docker and Kubernetes-based platforms and relevant use-cases and challenges

**Business Requirement:**

- Ability to quickly understanding business requirements and propose reference architectures and technical solutions.
- Ability to design and propose scalable and secure technical architecture for blockchain solutions for complex business problems.
- Ability to lead development teams and work as team player, comfortable with fast paced, changing environment and ambiguity
- Excellent leadership and interpersonal skills
- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects, set time frames, and meet deadlines
- Ability to drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation.

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<https://tnega.tn.gov.in/jobapply/careers/601/Senior%20Technical%20Architect-Blockchain>

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### **3, Tech Lead – Blockchain Development**

#### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology or related field.
- 7+ years of experience in enterprise software/solutions development in a highly technical and analytical role
- 2+ years of proven experience working with Blockchain technology.
- Should have project experience with Hyperledger Fabric 1.4 or above

#### **Responsibilities:**

- Design, develop and deploy solutions leveraging globally accepted Blockchain and DLT platforms
- Translate the needs of the stakeholders and accordingly design the architecture and workflows incorporating Blockchain and non-Blockchain (off-chain) resources to device the best possible solution
- Lead and coordinate internal and external development teams and collaborate with stakeholders including government departments and end-citizens to design, develop and deploy solutions.
- Keep upto-date on multiple Blockchain platforms and latest developments to advice the team and stakeholders accordingly
- Publication of domain-relevant white papers and points of view
- Actively contribute to the creation of proposals and other documents for consulting and/or transformation engagements

#### **Technical Skills:**

- Experience leading and working with a team for rolling out enterprise pilot or production grade Blockchain solutions for public and private sector in India or abroad

- Should have understanding of basic cryptography from an implementation point of view including encryption mechanisms and hashing algorithms
- Should have good understanding of fundamentals of Blockchain Technology
- Should have hands on experience designing and rolling out enterprise IT solutions
- Experience in a highly regulated industry such as Banking and Finance, Telecom, etc. will be preferred
- Project experience with Hyperledger Fabric 1.4 is required. Experience with Hyperledger Fabric 2.0 and above will be preferred
- Project experience with NodeJS is required. Experience building React Native apps is desirable
- Understanding and hands-on experience with one or more of the below Blockchain or DLT platforms is desirable - Corda, Ethereum, Quorum, Stellar, Tendermint
- Understanding and hands of experience with one or more of the below tools/frameworks/libraries used in blockchain solutions is desirable – IPFS, Metamask, Trufflesuite, Open Zeppelin
- Hands-on experience with PostgreSQL is required. Experience with CouchDB and MongoDB is desirable.
- Should have hands-on experience in designing and deploying applications to on-premise/private/public cloud environments
- Knowledge and experience in defining, designing and implementing microservices and REST APIs.
- Knowledge of packaging, deployment and management of Docker and Kubernetes-based platforms and relevant use-cases and challenges

**Business Requirement:**

- Ability to design and develop innovative blockchain solutions for complex business and technology problems.
- Ability to lead development teams and work as team player, comfortable with fast paced, changing environment and ambiguity
- Ability to quickly understanding business requirements and propose reference architectures and technical solutions.
- Excellent leadership and interpersonal skills
- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects, set time frames, and meet deadlines

- Ability to drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/602/Tech%20Lead%20%E2%80%93%20Blockchain%20Development>

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**4. Tech Lead – Business Consultant (Blockchain)**

**Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology or any engineering field.
- MBA in General Management / Marketing / Product Marketing or equivalent
- 5+ years of overall professional experience including experience in management consulting / tech consulting / technology sales or marketing / product management / business analyst or equivalent customer-facing analytical role in technology.
- 2+ years of experience in enterprise software/solutions development in a highly technical and analytical role
- Should have in-depth understanding of Blockchain Technology, its applications and prominent use cases.

**Responsibilities:**

- Lead coordination and collaboration with internal and external stakeholders including government departments and bodies, citizens, start-ups and enterprises on the various blockchain initiatives of TNeGA.
- Design and implement strategic plans for promoting adoption of blockchain technology and Nambikkai Inaiyam (Tamil Nadu Blockchain Backbone) by the startup and developer ecosystem, education institutes, enterprises and organizations of Tamil Nadu
- Researching and keeping track of developments and advancements in the field of blockchain, cryptography and other technology verticals to suitably advice internal and external stakeholders on selecting use cases for blockchain implementation, creating blockchain

application and security standards, designing innovative workflows and processes for fast and secure delivery of services and in any other areas.

- Publication of domain-relevant white papers and thought leadership articles
- Actively contribute to the creation of project proposals, tender documents, policy documents and other documents for consulting and/or transformation engagements for blockchain or any other technology initiatives of TNeGA

### **Technical Skills:**

- Should have good understanding of fundamentals of Blockchain Technology from a solution point of view including concepts such as consensus algorithms(Such as PoW, PoS etc.), smart contracts, DApps, oracles, network governance, tokens, basic cryptography concepts such as encryption and hashing, etc. Blockchain certification from IBM/Hyperledger/Edureka/Upgrad/Kerala Blockchain Academy or equivalent are desirable
- Should have experience in customer-facing (internal or external customer) tech roles such as pre-sales, product marketing, product management, tech strategy, business analytics etc.
- Should have hands on experience developing, designing and rolling out IT solutions
- Conceptual understanding of one or more of the below Blockchain or DLT platforms is desirable – Hyperledger Fabric, Corda, Ethereum, Quorum, Stellar, Tendermint

### **Business Requirement:**

- Ability to lead conversations and collaborations between internal and external stakeholders for adoption of blockchain technology and for leveraging Nambikkai Inaiyam (Tamil Nadu Blockchain Backbone) by generating awareness, planning capacity building sessions and workshops, use case identification, etc. Stakeholders can be government departments, educational institutes, start-ups, developers, public and private sector enterprises, technology vendors etc.
- Creating and implementing strategic plans for evolving the blockchain ecosystem of Tamil Nadu such as standards formulation, creating sandbox environment, planning capacity building etc.
- Ensuring that the blockchain initiatives of TNeGA are in line with advancements in technology around the world through research. Advising the technology teams and other stakeholders suitably on these advancements.



- Coordinating communication between government departments/other stakeholders and technology teams for implementing Nambikkai Inaiyam and other blockchain initiatives of TNeGA and ensuring that the department requirements are suitably captured and implemented in the final solution
- Excellent leadership and interpersonal skills
- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects, set time frames, and meet deadlines
- Ability to drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation.

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/603/Tech%20Lead%20%E2%80%93%20Business%20Consultant-Blockchain>

**5. Machine Learning Engineer – Computer Vision**

**Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology/Quantitative field such as Statistics, Operations Research, Mathematics etc., or related field.
- 2 – 4 yrs of experience in the field of AI/ML

**Computer Vision Skills:**

- Design end-to-end Computer Vision system architectures (for ML)
- Develop, optimize, evaluate, deploy and maintain ML models such as object detectors and object classifiers.
- Design, develop and maintain infrastructure for ML model training and evaluation.
- Design, develop, test, deploy, maintain and improve ML models/infrastructure and software that uses these models.
- Analyze field data to identify areas of possible improvement or enhancement of ML solutions.
- Hands-on experience in building, deploying, and improving Computer Vision and Machine Learning models and algorithms
- Knowledge in image processing, object classification and detection, object tracking

- Working knowledge is prebuilt ML architectures (eg, ResNet, MobileNet, YOLOv5, etc)
- Experience with database management
- Activity in the Open Source community
- Extensive data modeling, preprocessing and data architecture skills
- Build Data Pipelines & Platform to operationalize Machine Learning (ML) models at scale

### **Technical Skills:**

- Proficiency with a deep learning framework such as TensorFlow, Keras or PyTorch) and libraries (like scikit-learn, Pandas and Numpy)
- Understanding of data structures, data modeling and software architecture
- Proficiency with Python, Javascripts, and basic libraries for machine learning.
- Proficiency with IDEs – Jupyter Notebook, Spyder, Anaconda environments.
- Proficiency in Transformers and Transfer Learning.
- Expertise in visualizing and manipulating big datasets
- Familiarity with Linux (Centos and Ubuntu)
- Proficiency using SQL (MySQL, PostgreSQL, MongoDB)
- Ability to select hardware to run an ML model with the required latency
- Excellent communication skills
- Ability to work in a team
- Outstanding analytical and problem-solving skills

### **Responsibilities:**

- Study and transform data science prototypes
- Design machine learning systems
- Research and implement appropriate ML algorithms and tools
- Develop machine learning applications according to requirements
- Select appropriate datasets and data representation methods
- Run machine learning tests and experiments
- Perform statistical analysis and fine-tuning using test results
- Train and retrain systems when necessary
- Experience with Git based version control
- Extend existing ML libraries and frameworks
- Keep abreast of developments in the field

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/604/Machine%20Learning%20Engineer%20%E2%80%93%20Computer%20Vision>

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## **6. Machine Learning Engineer – Natural Language Processing**

### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology/Quantitative field such as Statistics, Operations Research, Mathematics etc., or related field.
- 2 – 4 yrs of experience in the field of AI/ML

### **Natural Language Processing Skills**

- Designing and developing NLP applications
- Using effective text representation techniques and classification algorithms
- Proven experience as an NLP Engineer or similar role
- Understanding of NLP techniques for text representation, semantic extraction techniques, data structures and modeling
- Working knowledge on pretrained NLP Models (ULMFiT, Transformer, BERT etc)
- Ability to effectively design software architecture
- Deep understanding of text representation techniques (such as n-grams, bag of words, sentiment analysis etc), statistics and classification algorithms
- Chatbots – Knowledge on building chatbots using RASA or any opensource framework.

### **Technical Skills**

- Proficiency with a deep learning framework such as TensorFlow, Keras or PyTorch) and libraries (like scikit-learn, NLTK, Gensim, Spacy)
- Proficiency in Pandas and Numpy is a must
- Highly desirable working with Vernacular Languages especially Tamil.
- Proficiency with IDEs – Jupyter Notebook, Spyder, Anaconda environments.
- Proficiency in using visualization tools like ggplot, matplotlib and Seaborn is a must.
- Understanding of data structures, data modeling and software architecture
- Proficiency with Python, Javascripts, and basic libraries for machine learning such as scikit-learn

- Proficiency in Transformers and Transfer Learning.
- Expertise in visualizing and manipulating big datasets
- Familiarity with Linux (Centos and Ubuntu)
- Proficiency using SQL (MySQL, PostgreSQL, MongoDB)
- Ability to select hardware to run an ML model with the required latency
- Excellent communication skills
- Ability to work in a team
- Outstanding analytical and problem-solving skills

### **Responsibilities**

- Study and transform data science prototypes
- Design machine learning systems
- Proficiency in develop models for Predictive analytics, forecasting and Time series analysis.
- Research and implement appropriate ML algorithms and tools
- Develop machine learning applications according to requirements
- Select appropriate datasets and data representation methods
- Run machine learning tests and experiments
- Perform statistical analysis and fine-tuning using test results
- Train and retrain systems when necessary
- Extend existing ML libraries and frameworks
- Experience with Git based version control
- Keep abreast of developments in the field

### **Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/605/Machine%20Learning%20Engineer%20%E2%80%93%20Natural%20Language%20Processing>

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## **7. Machine Learning – MLOPS**

### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology/Quantitative field such as Statistics, Operations Research, Mathematics etc., or related field.
- 2 – 4 yrs of experience in the field of AI/ML

### **About the role:**

- Design and build scalable machine learning solutions on top of the open source and enterprise products.

### **Job Responsibilities:**

- Research and implement MLOps tools, frameworks and platforms for our Data Science projects.
- Work on a backlog of activities to raise MLOps maturity in the organization.
- Experience using machine learning tools in production.
- Proactively introduce a modern, agile and automated approach to Data Science.
- Conduct internal training and presentations about MLOps tools' benefits and usage.

### **Required experience and qualifications:**

- Wide experience with Kubernetes is a must have.
- Experience in operationalization of Data Science projects (MLOps) using at least one of the popular frameworks or platforms (e.g. Kubeflow, AWS Sagemaker, Google AI Platform, Azure Machine Learning, DataRobot, DKube).
- Good understanding of ML and AI concepts. Hands-on experience in ML model development.
- Proficiency in Python used both for ML and automation tasks. Good knowledge of Bash and Unix command line toolkit.
- Experience in CI/CD/CT pipelines implementation (Github Actions, Jenkins)
- Experience in Workflow scheduling tools like Apache Airflow
- Monitoring Data Pipelines like Prometheus, Sentry etc.
- Knowledge on Infrastructure Provisioning using Terraform.
- Experience with cloud platforms - preferably AWS - would be an advantage.
- Excellent communication skills in English, both verbal and in writing.

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<https://tnega.tn.gov.in/jobapply/careers/606/Machine%20Learning%20%E2%80%93%20MLOPS>

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## **8. Senior Software Engineer – Full Stack Development**

### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology

- 3 – 5yrs of experience in Full Stack development.

### **About the role:**

To produce scalable software solutions. You'll be part of a cross-functional team that's responsible for the full software development life cycle, from conception to deployment and should be familiar with Agile methodologies.

As a Full Stack Developer, you should be comfortable around both front-end and back-end coding languages, development frameworks and third-party libraries. You should also be a team player with a knack for visual design and utility.

### **Job responsibilities**

- Work with development teams and product managers to ideate software solutions
- Design client-side and server-side architecture
- Build the front-end of applications through appealing visual design
- Develop and manage well-functioning databases and applications
- Develop and design RESTful services and APIs
- Test software to ensure responsiveness and efficiency
- Troubleshoot, debug and upgrade software
- Build features and applications with a mobile responsive design
- Write technical documentation
- Work with data scientists and analysts to improve software

### **Required experience and qualifications:**

- Proven experience as a Full Stack Developer or similar role
- Experience developing Web and Mobile applications
- Familiarity with common stacks (MEAN, MERN)
- Knowledge of multiple front-end languages and libraries (e.g. HTML/ CSS, JavaScript, XML, jQuery, Typescript and Angular)
- Knowledge of multiple back-end languages and JavaScript frameworks (e.g. Angular, React, Node.js)
- Knowledge on Mobile App development – Native, ionic, Flutter.
- Familiarity with databases (e.g. PostgreSQL, MongoDB), web servers (e.g. Apache) and UI/UX design
- Experience with Git based version control
- Excellent communication and teamwork skills

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/607/Senior%20Software%20Engineer%20%E2%80%93%20Full%20Stack%20Development>

## **9.Data Visualization Engineer**

### **Qualifications:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology/Quantitative field such as Statistics, Operations Research, Mathematics etc., or related field.
- Atleast 5 years experience developing, maintaining and managing advanced reporting, analytics, dashboards and other BI solutions.
- Responsibilities:
- Building intuitive, scalable, and highly interactive data visualizations
- Influencing governance decisions by providing quantitative/qualitative data analysis, which bring out insights and trends pertaining to e-governance system performance, service delivery etc.
- Making large and/or complex data more accessible, understandable and usable. Create new insights from data.
- Communicating findings to stakeholders and providing recommendations to stakeholders for improving e-Governance
- Transform unstructured (or ambiguous) data into usable data sets that can be analyzed to extract insights, visualized and improve business processes
- Drive process/system improvements basis ongoing trends/gaps identified
- Defining reporting standards and best practices inline with latest industry trends
- Feasibility study for new proposals and making recommendations for choice in solution and technology

### **Technical Skills:**

- 5+ years' experience in delivering solution with data visualization tools & technologies
- Experience in implementation of end-to-end BI life-cycle projects including dimensional modelling, ETL/ integration & Data Analytics
- Experience in implementing different graphs, charts & dashboards with strong sense of choice
- Experience in any of the data visualization tools like Tableau, Power BI, Pentaho, QlikSense etc.
- Experience in developing custom visualization using open-source technologies like Python, R etc.,
- Experience building visualizations using HTML, Javascript, and D3 or other charting libraries
- Experience in handling both structured and unstructured data
- Experience in diverse data sources (RDBMS, Bigdata, NOSQL, Cloud etc)
- Expert in SQL writing high performance code
- Experience in reports with live/real time data

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/608/Data%20Visualization%20Engineer>

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## **10. Data Architect**

### **Qualification:**

- Bachelor's degree in Engineering or equivalent, specializing in Computer Science, Information Technology or related field.
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- 15+ years of experience of IT platform implementation in a highly technical and analytical role with at least 5 years of experience leading teams.
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- The ideal candidate will have atleast 10+ years of experience with data technologies including big data, analytics, OLTP, AI/Data Models as well as information management, data warehouse, and business analytics functions, preferably in high transaction-oriented, at scale environments.

### **Responsibilities:**

- Build and maintain a scalable, flexible, extensible data architecture and platform that drives e-governance across the departments.
- Design, build and maintain scalable and extensible data processing components (Batch and Real-time) for Data Ingestion, Data Transformation, Data Curation, Data Cataloging, and Data Security, and Data Integrity.
- Build and maintain appropriate systems and storage for efficient Data lifecycle management - databases, data marts, data lakes, data warehouses and archives.
- Lead & manage a team of Database Engineers, Data Analysts and software developers
- Create and execute a data strategy for data driven e-governance and articulate to all stakeholders.
- Interact with the departments to understand the types of information and data needed to support their efforts
- Interact with departments and other stakeholders to support design & use of applications and data mining tools for effective real time reporting and analytics.
- Track, analyse and develop metrics to identify trends and patterns within the existing data as well as new data ingested.
- Work closely with all stakeholders including end user department, external vendors, start-ups and academic partners as needed.
- Lead architecture and design of integrated e-governance systems across departments.
- Drive the adoption of standards and best practices and promote reuse.



### **Technical Skills:**

- Experience in development and/or DBA experience in Relational Database Management Systems (RDBMS) such as DB2, Oracle, SQL Server, MySQL and/or Postgres, MPP databases (Teradata etc.),,
- Experienced in optimal design and analysing complex distributed production deployments in Hybrid cloud environment and use of serverless managed services.
- Strong understanding of modern data ingestion/curation/wrangling tools/technologies such as Informatica suite, Talend suite etc., BI tools such as Tableau/Qlikview
- Experienced in/deep understanding of design and implementation of enterprise data models and metadata structures. Understanding of different data modelling techniques such as Relational modelling, Dimensional modelling, Data Vault, etc.
- Experienced in/deep knowledge of the design and development of ETL code to load and transform the source data from various formats into a SQL database.
- Experienced in/deep knowledge of architecting and developing Data Warehousing / BI / Reporting solutions using platforms and technologies such as Hadoop, Spark, Databricks etc.

### **Business Requirement:**

- Ability to drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation.
- Ability to develop innovative solutions to complex business and technology problems.
- Excellent leadership and interpersonal skills
- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects, set time frames, and meet deadlines
- Ability to work as team player, comfortable with fast paced, changing environment and ambiguity

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<https://tnega.tn.gov.in/jobapply/careers/609/Data%20Architect>

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## **11. Software Engineer**

### **Qualification:**

- BE / B Tech / MCA / MSc / ME / M Tech in Computer Science/Information Technology or related field.
- 7+ years of experience in enterprise software quality assurance in a highly technical and analytical role

### **Responsibilities:**

- Design and develop test plans and test cases based upon functional and design specifications focusing on specific user stories
- Participate actively in an Agile based development / testing environment, including reviews and planning activities
- Participate actively in functional, system, stress, longevity and regression testing activities
- Implement test cases/suites leveraging tools like Testng, Selenium and JUnit
- Execute test cases across the supported platforms/operating systems
- Analyze and report test results to user departments, development/vendor teams
- Participate in test case reviews and provide feedback
- Participate in internal/cross team meetings and technical documentation reviews
- Work closely with the development team to analyze, debug and resolve the bugs

### **Technical Skills:**

- Strong QA background with experience in developing and reviewing test plans, test cases and testing results.
- Knowledge of scripting languages such as SQL, Perl, Python, XML or Ruby
- Understanding of large complex software systems to isolate defects, reproduce defects, assess risk and understand varied customer deployments
- Experience with different test automation techniques and developing stable and efficient automation frameworks/strategies
- Understanding of SOAP and REST based APIs testing
- Experience with software testing metrics
- Experience with performance/security/usability testing highly desirable
- Prior experience working with e-Governance systems & processes in public sector/state/central Government is highly desirable

### **Business Requirement:**

- Ability to quickly understanding business requirements and proposing reference architectures and technology solutions.
- Ability to drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation.
- Ability to develop innovative solutions to complex business and technology problems.
- Excellent leadership and interpersonal skills

- Strong verbal and written communication skills, including the ability to present complex material to wide range of audiences in plain language
- Ability to multi-task, manage projects, set time frames, and meet deadlines
- Ability to work as team player, comfortable with fast paced, changing environment and ambiguity

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## **12. SAS certified Experts / Data Scientists**

### **Qualification:**

- BE / B Tech / ME / M Tech in Computer Science/Information Technology or related field.
- 6 + years of experience in SAS Data Analytics in a highly technical and analytical role
- BASE SAS Certification is mandatory
- Visual Analytics ( SAS VIYA) Certification is desirable

### **Responsibilities:**

- SAS certified Data Analytics experts for development and implementation of analytical use cases and reports.
- The indicative list of major areas, where the resources would be working on as part of the assignment are as following:
  - Defining the Analytical Use Case
  - Formulating the problem statements
  - Deployment, Configuration, Integration and testing of SAS Analytical Solution.
  - Design, Develop, Automate ETL jobs to extract transform and load data
  - Troubleshoot, Debug , Renew the existing SAS software
  - The prepared deployment architecture should comply with the deployed solution
  - Any other project related analytical work assigned by department using the existing analytical solution
  - To prepare and maintain the technical specification documentation up-to-date with version control.

**Click on the below link to Apply**

<https://tnega.tn.gov.in/jobapply/careers/611/SAS%20certified%20Experts-Data%20Scientists>

