

SARATH KUMAR MURUGAIAH

Chennai, Tamil Nadu | Mobile: +91 72990 27352 | Email: sarathm189@gmail.com

PROFESSIONAL SUMMARY

Full Stack AI Engineer with **11+ years** in software development, specializing in building **scalable, cloud-native** applications across Telecom and BFSI sectors. Proficient in **Java, Spring Boot, Spring Cloud** microservices, **REST API** design, and **AI-driven automation**. Proven expertise spans **distributed systems, Apache Kafka, NoSQL databases**, and high-performance **caching strategies**. A strong proponent of **best engineering practices** including **TDD, Continuous Integration**, and **Continuous Deployment (CI/CD)**, skilled in **analysis, query optimization**, and delivering **end-to-end technical solutions** within a **highly collaborative agile environment**. Seeking to leverage deep expertise in **Generative AI** and **Full Stack development** to drive innovation and technical excellence.

CORE COMPETENCIES

- **Backend & APIs:** Java (21/17/11), Spring Boot, Spring Cloud, Spring Security, Groovy, Python, REST API, Web Services, GraphQL, WebFlux, OAuth2.0, JWT.
- **AI/ML & Automation:** Generative AI, LangChain, OpenAI API, TensorFlow, PyTorch, MLflow, Hugging Face, Automation Pipelines.
- **Cloud & DevOps:** AWS (EKS, Lambda, S3, API Gateway, RDS, DynamoDB), Kubernetes, Docker, Helm, Terraform, Jenkins, GitLab CI/CD, GitHub Actions, Continuous Deployment.
- **Data & Streaming:** Apache Kafka, RabbitMQ, Redis (Caching), PostgreSQL, MongoDB, NoSQL, SQL Server, Oracle, DynamoDB, Query Tuning & Optimization.
- **Frontend:** React.js, Angular, JavaScript, HTML5, CSS3, Responsive UI, Component-driven Development.
- **Practices:** TDD, Test Driven Development, Unit Testing, Integration Testing, Analysis, Problem Solving, Clean Code, Agile.

PROFESSIONAL EXPERIENCE

Senior Engineer Consultant Software Development

Verizon Data Services India Pvt. Ltd | May 2023 – Present

- Spearheaded the design and delivery of **scalable Spring Boot, Spring Cloud microservices** deployed on **AWS EKS**, resulting in a **60% reduction in deployment time** and achieving **99.9% uptime**.
- Built high-performance **REST APIs**, Web Services, **GraphQL services**, and **reactive WebFlux** modules, successfully supporting **10,000+ concurrent users**.
- Implemented **Apache Kafka** for high-volume **event streaming** and **Redis** for distributed **caching**, which **improved response time by 30%**.
- Contributed to **front-end development** using **React** for reusable enterprise modules.
- Architected **Airflow batch pipelines** processing **10M+ daily records** with a sustained **99.5% accuracy**.
- Applied advanced **analysis** and **problem-solving** to optimize complex **integration workflows** and system performance.
- Enforced **TDD** and **automated integration testing** pipelines, ensuring API consistency and quality.

- Developed **Python dashboards** using Plotly & Dash, enhancing **operational insights** and reducing issue detection time by **40%**.
- **Tech Stack:** Java 21, Spring Boot 3+, Spring Cloud, Spring Security, WebFlux, Kafka, Redis, React, AWS EKS, PostgreSQL, DynamoDB, LangChain, Python, Apigee.

Consultant Cloud

Concentrix (Client: TMobile Atlas Microapps) | Aug 2021 – May 2023

- **Modernized legacy applications** into secure **Spring Boot microservices**, deployed on **Kubernetes** with secure API integration.
- Developed robust **REST APIs**, Web Services, and **GraphQL** with **Apigee** integration, secured using **OAuth2.0/JWT**.
- Contributed to **front-end development** using **React** and **Angular** for reusable enterprise modules.
- Built and maintained solutions leveraging both **NoSQL** and **SQL** databases with key **query optimization**.
- Automated **CI/CD** using **Jenkins & GitLab**, establishing a reliable pipeline for **Continuous Integration** and **Continuous Deployment**.
- **Tech Stack:** Java 11, Spring Boot, Angular, React, Kubernetes, Kafka, Redis, AWS S3, Apigee.

Senior Software Developer

Cognizant Technology Solutions (Client: BNY Mellon) | Jul 2018 – Aug 2021

- Developed complex financial **microservices** utilizing **Spring Boot**, **Apache Camel**, and **event-driven integrations**.
- Built responsive **Angular UI** business.
- Implemented **TDD**, **unit testing**, and **integration testing** practices, with automated deployment via Jenkins/Docker.
- Significantly improved system performance through effective **caching**, **API refactoring**, and targeted **database query optimization**.
- **Tech Stack:** Spring Boot, Camel, Angular, SQL Server, Docker, Jenkins, Kafka.

Software Engineer

L&T Infotech Pvt. Ltd (Client: Citi Bank) | Feb 2015 – Jun 2018

- Built enterprise-grade banking applications using **Spring MVC**, **JSP**, **Hibernate**, and **Oracle**.
- Enhanced system stability by utilizing **optimized queries**, improving **integration workflows**, and implementing **caching mechanisms**.
- Used JUnit and test frameworks to strengthen application testing and stability.
- Ensured **clean coding**, technical **analysis**, and comprehensive documentation for all software modules.
- **Tech Stack:** Java 1.7, Spring MVC, JSP, Hibernate, Oracle.

EDUCATION

Bachelor of Engineering– Computer Science and Engineering | Kongu Engineering College, Anna University | 2014