

Sai Sharan Sripada

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WORK EXPERIENCE

Software Development Engineer

Aug 2025 – Present

Community Dream Foundation

- Developed **Spring Boot REST APIs** using Java, JPA, Hibernate, and Spring Security, implementing core business logic and robust data validation layers.
- Implemented unit and integration tests using **JUnit, Mockito, and Jasmine**, increasing code coverage by 30% and reducing production regressions.
- Built **GraphQL** APIs (schema + resolvers) with authorization, pagination, and performance optimizations to support scalable frontend workflows.
- Optimized SQL and NoSQL queries across microservices, reducing API latency by 18% and improving overall system throughput.
- Configured CI/CD pipelines using **GitHub Actions** and deployed application components to AWS services.

Software Development Engineer II

Jan 2022 – Aug 2023

Zemoso Technologies

- Developed a robust backend service with 20+ REST APIs using **Node.js, Express.js, and TypeScript**, integrating with Angular-based frontend services and reducing response times by 30%.
- Implemented a cache-aside strategy using **Redis**, reducing data retrieval latency by 400ms and improving system efficiency by 30%.
- Engineered event-driven communication using **AMQP, RabbitMQ, and Kafka** to support real-time features across distributed systems, increasing message delivery efficiency by 25%.
- Executed end-to-end migration from **PostgreSQL to MongoDB**, including data pipelines, schema redesign, indexing strategies, and performance tuning to improve scalability and query efficiency.
- Spearheaded development of an internal **NPM package** for retrieving environment variables from Kubernetes, integrated across 6 teams with over 1,000 company-wide downloads.
- Applied **Test-Driven Development (TDD)** using Jest and Mocha; enforced secure coding standards via Sonar, achieving 95%+ test coverage and maintaining high code quality through peer reviews.

Software Development Engineer

Jun 2021 – Jan 2022

Zemoso Technologies

- Built CI/CD pipelines using **Jenkins and GitHub Actions**, reducing deployment time by 40% across multiple teams.
- Containerized services with **Docker** and deployed them using Helm charts on **Kubernetes (GKE)**.
- Designed Spring Boot applications for cloud deployment using **AWS ECS and Lambda-backed APIs**, implementing configuration management, logging, and monitoring aligned with enterprise standards.
- Provisioned AWS infrastructure using **Terraform**, deploying microservices and serverless components with AWS Lambda, API Gateway, S3, DynamoDB, IAM, and CloudFormation-ready templates.

Software Engineer

May 2019 – May 2021

CUREnhancement

- Developed a web-based application using **React.js**, state management, and modular routing to manage educational resources, improving usability for 100+ users.
- Built a scalable backend using **Spring Boot, Hibernate, Spring Data JPA, and MySQL** to support CRUD operations for 1,000+ resources, improving data retrieval efficiency by 25%.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, SQL, NoSQL, C, C++, Go

Frameworks: Node.js, Express.js, Spring Boot, React.js, Flutter, REST APIs, GraphQL, Microservices

Testing: JUnit, Mockito, Jest, Mocha, Jasmine

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, Firebase, CassandraDB

Cloud & DevOps: AWS (ECS, Lambda, SQS, SNS, IAM, S3), GCP, Docker, Kubernetes, Helm, ArgoCD, Terraform, Jenkins, GitHub Actions

Monitoring & Tools: Git, Linux/Unix, Bash, Prometheus, Grafana, ELK, Splunk

AI & Data: Pandas, Jupyter, TensorFlow, PyTorch

EDUCATION

Master of Science in Computer Science

Aug 2023 – May 2025

University of South Florida, Tampa

GPA 4.0

- Coursework: Data Structures Algorithms, Databases, Cloud Computing, Networks, Artificial Intelligence (LLMs)

PROJECTS

Akshayapatra | *Java, Kotlin, Android Studio, Firebase, Maven*

- Engineered a user-friendly app for food ordering from the college canteen, integrating Firebase for secure authentication and cutting order processing time by 30%, garnering over 200 users and positive feedback in the first month.
- Integrated PayPal SDK for secure payments, supporting 1000+ transactions with 99% success rate.

PAAD Early Detection System (Psychomotor Agitation in Dementia) | *Python, TensorFlow, Keras, Pandas, NumPy*

- Built an Artificial Intelligence (AI) system to predict early signs of Psychomotor Agitation and Aggression in Dementia (PAAD) using sequential healthcare data.
- Designed and trained an AI model using LSTM neural networks to analyze behavioral patterns and generate predictive insights.
- Improved prediction accuracy by 20% through model tuning, structured data preprocessing, and validation strategies.
- Implemented validation metrics (precision, recall, F1-score, ROC-AUC) and cross-validation strategies to ensure model robustness and generalization.