

Tarun Reddy Lakkireddy

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Experienced Full-Stack Software Engineer with 3 years of experience building scalable web & mobile applications using **Java, Spring Boot, Microservices, Hibernate, React Js, JavaScript, and relational databases**. Strong expertise in **RESTful API development, performance optimization, CI/CD pipelines, and containerized deployments** in Agile environments. Demonstrates solid **foundational knowledge in AI/ML concepts and generative AI application development**, along with hands-on experience in modern application development projects. Proven track record of delivering large-scale platforms in the **banking and financial services sector supporting 50M+ users**. Adept at end-to-end SDLC execution—from requirements analysis and system design to development, testing, deployment, and documentation—with strong **problem-solving skills** and experience creating detailed technical documentation, consistently delivering clean, maintainable, production-ready code.

EDUCATION

Masters in Computer Science, University of Central Oklahoma

01/2024 – 12/2025

Concepts: Data Structures & Algorithms, Artificial Intelligence, Cloud Computing, Application Database Systems, Mobile Apps Programming, Cloud Web Apps Development, Enterprise Web Programming, Software Engineering

SKILLS

Programming Languages: Java, Python, Go, JavaScript, SQL, C++

Backend: Java, Spring Boot, Spring MVC, Spring Cloud, Spring Security, JPA, Spring AI, Spring Cloud Gateway, Eureka, Node.js, Microservices, JWT, OAuth 2.0, Hibernate, REST APIs, SOAP, Axios API, Servlets, PHP, JSP, XML, JMS, Unit Testing (JUnit), Mockito

Frontend: Angular, React JS, React Native, JavaScript, TypeScript, jQuery, HTML5, CSS3, Bootstrap

Cloud Tools & DevOps: AWS (EC2, S3, Lambda, IAM, Dynamo DB, RDS, CloudWatch, AWS CLI, SQS, ECS), Azure (AKS, Cosmos DB), Google Firebase, Docker, Kubernetes, CI/CD Pipelines (Jenkins), GitHub Actions

Databases: SQL, PostgreSQL, MySQL, Oracle SQL, NoSQL (Mongo DB)

Configuration & Management: Maven, Git, Bit Bucket, Tortoise SVN, GitHub

Tools & OS: IntelliJ, Eclipse, VS Code, STS, Windows, Linux

Monitoring & Messaging: Spring Boot Actuator, Resilience Patterns, Redis, Kafka, RabbitMQ

Agile & SDLC: Scrum, Jira, Design Patterns, System Design, OOP, Test Driven Development

PROFESSIONAL EXPERIENCE

Ojas Innovative Technologies – Software Engineer

01/2021 – 11/2023

- Developed backend APIs using Java, Spring Boot, Hibernate for a mobile banking application handling 1000+ requests per minute for various modules like FD/RD, Fund Transfer, Demat and WhatsApp Banking.
- Designed and implemented a centralized error tracking and logging framework using structured logs and exception interceptors to capture error occurrences during critical user flows such as Login and Registration reducing production issue resolution by 40%.
- Identified and handled backend failure points, improving error traceability and reducing login/registration issues by 50% through proactive monitoring and faster debugging.
- Developed and maintained robust banking APIs using RESTful principles, handling 1000+ requests per minute with a 99.99% uptime, and improved API performance by 30% through code optimization.
- Designed and exposed scalable RESTful APIs for multiple banking modules using Spring Boot and MVC architecture and actively participated in code reviews and design discussions and supported production release through real-time monitoring and detailed log analysis, resulting in a 25% reduction in post-release defects.
- Built a dynamic multilingual feature enabling users to switch app language at runtime by implementing language-based resource management and locale handling, significantly improving accessibility and driving higher user engagement across regional language users.

PROJECTS

AI Powered Cold Email Automation Platform

Developed an end-to-end Generative AI application that automatically generates personalized cold outreach emails from job postings using Llama 3.1 and modern LLM orchestration frameworks. The system extracts job requirements, retrieves relevant portfolio context using vector search, and produces tailored email content through a user-friendly web interface.

Coding: Python, Lang Chain, Vector DB, Streamlit

Tools: VS Code, Jupyter

Secure Mental Health Support Platform with AI Moderation

Developed a secure, cross-platform **Mental Health Support Application** designed to assist individuals with personal health management, including medication tracking, appointment scheduling, and moderated peer-to-peer support. The application integrates a **Large Language Model (LLM)** for automated forum content moderation to ensure user safety while maintaining compliance with sensitive data-handling best practices.

Coding: Node JS, React Native, Axios API, Mongo DB

Tools: VS Code

Remainder Webapp

Designed to help users manage their tasks, set reminders, and receive email notification about their upcoming events and view recurring tasks efficiently. The notifications can be customized according to the timings the user wants the notification and frequency of notification.

Coding: Java, Spring Boot, Thymeleaf, MySQL, Spring Boot Scheduler

Tools: IntelliJ

CERTIFICATIONS & ACHIEVEMENTS

JavaScript for Front End Web | University of Central Oklahoma

Dockerize Spring Boot Application | Great Learning Academy

Best Customer Point of Contact Award: Recognized for high availability and proactive ownership in resolving customer issues.