Mahitha Pasupuleti

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LinkedIn | Github | Portfolio | Leetcode | Design | Medium

SKILLS

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

Backend & Microservices: Spring framework, SpringBoot, JDBC, Spring Security, REST APIs, GraphQL, Hibernate, WebSockets, Node.js

UI/Frontend: React.js, Redux, HTML, CSS, JavaScript, Tailwind, Next.js

Cloud & Big Data: AWS, EC2, S3, IAM, Elasticsearch, Kafka, RabbitMQ, PySpark, Databricks, Docker, Kubernetes, Terraform, Hadoop

Database Technologies: OracleDB, MongoDB, DynamoDB, MySQL, Postgres, Redis, Azure Cosmos DB

DevOps & Tools: Github Copilot, Claude Code, Git, Jenkins, GitLab, Ansible, Maven, Gradle, Jira, Postman, Mulesoft, Splunk, JUnit

WORK EXPERIENCE

Senior Software Engineer | *Tata Consultancy Services* | Project - Bank of America   *Jan 2023 - Jan 2024*

- Architected a **JWT-based microservice** to standardize API authentication, handling 100K+ daily requests and enhancing security.
- Developed **20+ integration Rest APIs** as part of the CashPro API Network, enabling deep integration into client workflows. Successfully onboarding **150+ clients** and generating **$10M** in revenue.
- Researched, designed, and developed the **system architecture** for microservices by incorporating Domain-Driven Architecture (event-based), leveraging Axon - CORS and SAGA patterns, Kafka, and Oracle SQL Database.
- Combined multiple APIs into a single endpoint, returning only necessary data to **reduce network calls** and improve data processing.
- **Developed three core microservices using Spring Boot and Docker**, driving the initial monolith decomposition strategy while ensuring backward compatibility with legacy systems.
- Resolved reconciliation failures in the real-time payments pipeline and enhanced resiliency by implementing **idempotent APIs**, retry logic, and event-driven auditing to prevent duplicate or missing transfers for **CashPro Payments API**.
- **Mentored 5+** interns and new graduates at **BOA**, providing technical expertise, conducting code reviews, and guiding them in projects including **Digital Commerce application** restructuring and workflow automation.

Software Engineer | *Tata Consultancy Services* | Project - Bank of America   *Jan 2021 - Jan 2023*

- Optimized API performance, cutting response times from **500 ms to 200 ms** and improving experience for **50K+ daily users**.
- Upgraded **15+ microservices** to **Java 17** and **Spring Boot 3**, modernizing the codebase and improving performance.
- Diagnosed and resolved a large-scale digital outage by tracing API failures and restoring online services, and later implemented monitoring dashboards and automated health checks to reduce MTTR for future incidents.
- Achieved **90% code coverage** with **JUnit** and **Mockito**, reducing SonarQube issues by 25% and improving release stability.
- Maintained impeccable code quality through **SonarQube** analysis and code reviews, achieving 100% code compliance.
- Led the migration of a multi-module microservice to over 15+ modules using **SOA**, enhancing modularity and team productivity.
- Developed performance-centric dashboards using **React**, **TypeScript**, and **Material** libraries, leveraging **WebSockets** for real-time account updates, fraud alerts, and live transaction notifications to improve responsiveness and enhance customer experience.
- Optimized memory-heavy services via GC log analysis and Splunk, **cutting heap usage by 60%** and **improving API latency by 25%.**

Teaching Associate | California State University, Fullerton   *Jun 2024 - Current*

- Instructor for **Java Advanced Programming** and **Web-Frontend engineering**, teaching a total of 150 students.
- Instructed concepts of Design Patterns, Exception Handling, Test Driven Development, and Data Structures & Algorithms.
- **Upgraded 8-10 applications** to the latest Node and React versions, ensuring compatibility and security improvements.
- Integrated a design tool to enforce design standards across applications, using vanilla HTML components in React for a consistent UI.

EDUCATION

California State University Fullerton | **Master's in Computer Science**   GPA: 3.94 | *Jan 2024 - Dec 2025*

Jawaharlal Nehru Technological University Hyderabad | **Bachelor of Computer Science Engineering**   GPA: 3.5 | *Aug 2016 - Sep 2020*

PROJECTS

Agentic AI Project Builder | Code | *LangChain, LangGraph, Groq Cloud, Python/FastAPI, React, Pydantic, multi-agent workflow*

- Built a **full-stack AI coding assistant** with a **multi-agent workflow** (Planner → Architect → Coder) that converts natural language prompts into complete, structured projects. Developed **Pydantic-driven task models** to safely generate and organize project files.

Nihira | Code | *Node.js, Express.js, React.js, MongoDB, WebSockets, Kafka, Redis, Docker, AWS*

- Built a real-time chat application using **WebSockets**, Kafka for **event-driven architecture,** deployed on **AWS**, and Redis for caching.

Personalized Health Tracker | Code | *Azure Databricks, Data Lake, PySpark, Kafka, Python, Java, SQL*

- Built **ETL pipelines** for ingesting Fitbit data using **Python, Kafka** (semi-structured), and **SQL** (structured) into **Azure Data Lake** using **Azure Data Factory**, automating data ingestion throughout the day.