

VARSHITHA MACHERLA

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SUMMARY

Java Full Stack Developer with experience in building **enterprise applications** across technology and regulated pharmaceutical domains. Skilled in **Java, Spring Boot, React, and AWS**, with hands-on experience developing **microservices, REST APIs, and responsive frontend systems** supporting platforms handling **1.5M+ transaction events daily**. Contributed to **high-traffic, real-time platforms** and integrated **ML-based services**, while supporting **cloud deployments** and **CI/CD pipelines** in **Agile environments**.

PROFESSIONAL EXPERIENCE

Software Engineer | Uber | USA

Mar 2026 – Present

- Developed and enhanced **Node.js-based ride-matching services** to support real-time rider-driver matching, contributing to systems handling **high-volume API traffic 200K+ requests daily** across **multiple metro regions**.
- Integrated **DeepETA (ML-based) predictions** into ride services via **REST APIs**, storing ETA data in **MySQL** and enabling visibility through **React.js dashboards** for operational use across **key markets**.
- Built and deployed surge-pricing services using **Docker**, along with a **React.js** admin console to support pricing overrides during high-demand periods **100+ daily surges**.
- Supported deployment and scaling of services on **Kubernetes (Azure AKS and AWS EKS)**, contributing to **CI/CD pipelines** and enabling regular containerized releases across ride-matching and pricing systems.

Java Full Stack Developer | Dell Technologies | India

Dec 2022 – Dec 2023

- Modernized legacy inventory modules by transitioning monolithic components into **11 scalable Spring Boot microservices**, successfully supporting **1.8M daily transactions** while increasing overall system reliability.
- Redesigned fulfillment interfaces using **React 17** and reusable component libraries, which reduced page load times to **2.4 seconds** and streamlined the end-to-end workflow for operations teams.
- Integrated **enterprise-grade security protocols** by architecting a Spring Security framework with **OAuth2** and **JWT**, enabling 14 third-party integrations to exchange data via secure, authenticated API layers.
- Automated the software delivery lifecycle by standardizing **Docker** containerization and **CI/CD pipelines**, which eliminated 40+ manual deployment steps and maintained a high-velocity cadence of 25 releases per quarter.
- Optimized **data retrieval for 8M+ records** by refactoring **PostgreSQL** queries and implementing strategic indexing, reducing **API response latency** to a consistent **350–450ms range**.

Full Stack Developer | Cipla | India

Aug 2021 – Dec 2022

- Delivered end-to-end application modules using **Java, Spring MVC, Angular 14, and JavaScript (ES6+)** to digitize pharmaceutical supply-chain workflows across **9 manufacturing and distribution facilities**, improving operational visibility.
- Built and integrated **AWS Lambda and API Gateway** services to replace batch jobs, enabling **7 automated workflows** processing **850K records per execution cycle** with improved reliability.
- Refactored tightly coupled backend components into **stateless microservices**, enabling parallel request handling and improving system stability for applications used by **5 cross-functional business teams**.
- Ensured application reliability by designing and executing **620+ functional and integration test cases** using JUnit 5, Selenium, and Postman, strengthening release quality and reducing production defects.
- Collaborated in **Agile/Scrum** using **Jira and Confluence**, delivering 12 production features and resolving **10 defects per release cycle** to maintain uninterrupted system access.

TECHNICAL SKILLS

- Programming Languages:** Java (8/11/17), Python, TypeScript, JavaScript (ES6+), SQL
- Backend Development & APIs:** Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate, JPA, RESTful APIs, GraphQL, Microservices Architecture, API Design, Service Decomposition, Distributed Systems, Event-Driven Architecture
- Frontend Development:** React 17, Angular 14+, AngularJS, HTML5, CSS3, Bootstrap
- Databases & Data Storage:** PostgreSQL, MySQL, MongoDB, DynamoDB, Query Optimization, Indexing
- Cloud & DevOps:** AWS (Lambda, API Gateway, EC2, DynamoDB, EKS, CloudFormation, S3, IAM), Azure, Docker, Kubernetes (EKS/AKS), Jenkins, GitLab CI, Azure DevOps, CI/CD Pipelines, Infrastructure as Code, Terraform
- Testing & Quality Engineering:** JUnit 5, Selenium, Postman, Integration & Regression Testing, Test Automation
- Security & Authentication:** Spring Security, OAuth2, JWT, Role-Based Access Control (RBAC), Secure API Development
- Performance & Observability:** Scalability, High Availability, Fault Tolerance, Latency Optimization, API Performance Tuning, Logging, Monitoring, Debugging, CloudWatch, Prometheus, Grafana (familiarity)
- Tools & Methodologies:** Git, Jira, Confluence, Swagger, Agile/Scrum, SDLC, TDD

PROJECTS

Distributed Order Processing & Payment Orchestration System

- Implemented a Java-based order processing system using **Spring Boot** and **RESTful APIs**, coordinating order validation, payment authorization, and status tracking across 6 service endpoints handling approximately 480K order events.
- Integrated asynchronous messaging with **Kafka** and transactional persistence in **PostgreSQL**, ensuring reliable order state transitions under concurrent requests and sustaining average end-to-end processing times below 700 milliseconds.

Intelligent Demand Forecasting System Using Machine Learning

- Trained supervised **machine learning models** using **Scikit-learn** and **XGBoost** on 1.4M historical demand records, performing structured **feature engineering** to support weekly forecasting for 18 product categories.
- Operationalized model inference through Python-based services on **AWS**, generating forecast outputs consumed by planning teams and reducing manual demand adjustment efforts by 9 hours per planning cycle.

EDUCATION

Master of Science in Cybersecurity | University of Central Missouri | USA

Jan 2024 – Dec 2025

CERTIFICATIONS

- Certified in Cybersecurity – ISC2 | Google Cybersecurity Certificate**