

Vasudha Maddi

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EDUCATION

University of Central Florida, Orlando, Florida

Masters of Science in Computer Science

May 2025

Cumulative GPA: 3.9/4.0

Osmania University, Hyderabad

Bachelor of Engineering in Electronics and Communication Engineering

May 2021

Cumulative GPA: 7.6/10

PROFESSIONAL SUMMARY

- Over **3.5+ years of experience** as a **Java Full Stack Developer**, specializing in developing scalable web applications and microservices using **Java**, **Spring Boot**, **Spring MVC**, and **Spring Security**.
- Strong expertise in building and consuming **RESTful APIs**, implementing secure authentication with **OAuth2** and **JWT**.
- Proficient in **frontend development** using **React.js**, **Angular**, **HTML5**, **CSS3**, **Bootstrap**, **TypeScript**, and **JavaScript**, with a focus on responsive and user-friendly UI design.
- Experienced in **Object-Oriented Programming (OOP)**, **Java Collections Framework**, **Multithreading**, and **Exception Handling**.
- Skilled in integrating and managing **databases** using **MySQL**, **PostgreSQL**, **MongoDB**, and ORM tools like **Hibernate** and **Spring Data JPA**.
- Hands-on experience with **Docker**, **Kubernetes**, and **CI/CD pipelines** for containerization, orchestration, and automated deployments.
- Knowledgeable in deploying cloud-native applications using **AWS services** like **EC2**, **S3**, **RDS**, and **IAM** for secure, scalable infrastructure.
- Experienced in **test-driven development (TDD)** using **JUnit** and **Mockito**, ensuring high test coverage and stable codebases.
- Actively contributed to **Agile development processes**, including daily standups, sprint planning, and retrospectives, with strong collaboration and communication skills.

TECHNICALSKILLS

Programming Languages: Java, Python, C, JavaScript, TypeScript

Frontend Development: HTML5, CSS3, React.js, Angular, Bootstrap, Responsive UI Design

Backend Development: Spring Boot, Spring Framework, Spring MVC, Node.js, RESTful APIs, Microservices, Servlets, JSP

Databases: MySQL, PostgreSQL, MongoDB, Spring Data JPA, Hibernate, JDBC

Web Security: JWT, OAuth

Cloud & DevOps: AWS (EC2, S3, RDS, IAM), Docker, Kubernetes, CI/CD Pipelines

Testing & Automation: JUnit, Mockito

Build & Dependency Management: Maven, Gradle

Project & Version Control Tools: Git, GitHub, GitLab, Jira, Confluence, VS Code, Eclipse, Postman

Soft Skills: Effective Communication, Team Collaboration, Problem-Solving, Critical Thinking, Time Management, Adaptability, Leadership, Self-Motivation

Certifications: AWS Certified Solutions Architect – Associate

PROFESSIONAL EXPERIENCE

US Bank, Software Engineer | Irving, Texas

May 2024 - Mar 2025

- Built enterprise-scale full-stack applications using **Java**, **Spring Boot**, **React.js** (for dashboards) and **Angular** (for admin modules), increasing platform performance by **30%** through microservice modularization.
- Developed and consumed secure **RESTful APIs** using **Spring MVC**, achieving seamless integration across multiple banking systems.
- Integrated **Spring Security** with **OAuth2** and **JWT** for access control, ensuring compliance with internal banking security policies.
- Utilized **Spring Core Annotations** for dependency injection, simplifying configuration and promoting loosely coupled architecture.
- Created dynamic UI components using **React.js**, **TypeScript**, and **Bootstrap**, improving user interaction and reducing support tickets by **20%**.
- Managed and scaled microservices using **Docker** and **Kubernetes**, improving deployment agility and fault tolerance.
- Deployed applications on **AWS EC2**, used **S3** for asset storage, and **RDS** for relational data with automated backups and monitoring.
- Automated CI/CD pipelines via **Jenkins**, increasing delivery speed by **50%** and reducing production bugs by **35%**.
- Collaborated across Agile teams, participating in sprint planning, story grooming, retrospectives, and demo sessions using **Jira**.
- Performed unit and integration testing using JUnit and Mockito, ensuring 90%+ test coverage.

Environments: Java 17, Spring Boot, Spring MVC, Spring Security, OAuth2, JWT, Hibernate, PostgreSQL, MySQL, Angular, React.js, TypeScript, Bootstrap, Docker, Kubernetes, AWS (EC2, S3, RDS, IAM), Jenkins, GitHub, Gradle, JUnit, Mockito, VS Code, STS, REST APIs, CI/CD Pipelines

Client: AbbVie

- Designed scalable **microservices** using **Spring Boot**, with **Spring Data JPA** for persistence and **MongoDB** for high-throughput data storage.
- Developed responsive, cross-browser web apps using **React.js** and **Bootstrap**, improving physician portal performance and accessibility.
- Integrated **token-based authentication** using **Spring Security** with **JWT**, reducing unauthorized access incidents.
- Automated service deployments using **Docker** and orchestrated rollouts with **Kubernetes**, ensuring zero-downtime updates.
- Deployed and monitored applications on **AWS EC2**, configured S3 for secure file handling, and utilized RDS for critical business data.
- Wrote robust test cases using **JUnit** and **Mockito**, catching bugs early and reducing QA cycles.
- Collaborated on API design and testing using **Postman**, maintained Swagger documentation for internal and partner teams.
- Followed Agile methodology and collaborated in daily stand-ups, sprint planning, and retrospectives to maintain predictable delivery velocity.

Environments: Java 11, Spring Boot, Spring Data JPA, Hibernate, MongoDB, React.js, Bootstrap, Docker, Kubernetes, AWS (EC2, S3, RDS), OAuth2, JWT, JUnit, Mockito, Postman, Git, Maven, VS Code, STS, REST APIs

Cognizant Technology Solutions, *Junior Software Engineer* | Chennai, India

Jan 2021 - August 2021

Client: Myntra

- Developed **REST APIs** and backend modules using **Spring Boot** and **Spring MVC** to manage product catalog, improving request handling efficiency.
- Built user-facing components using **HTML5**, **CSS3**, **JavaScript**, and **Bootstrap**, enhancing the internal UI's responsiveness and reducing load time.
- Optimized SQL queries and schema design using **Hibernate** and **MySQL**, cutting down data retrieval time by **20%**.
- Configured **Log4j** for granular logging, enhancing visibility into application behavior and aiding debugging in production.
- Deployed applications on **AWS EC2**, secured access using **IAM roles**, and handled storage using **S3** for static content.
- Conducted thorough **unit testing** using **JUnit**, ensuring stability before deployment and meeting coverage goals.
- Maintained Git branches across environments, performed code merges, and collaborated on version control with the wider engineering team.

Environments: Java 8, Spring Boot, Spring MVC, Hibernate, MySQL, HTML5, CSS3, JavaScript, Bootstrap, AWS (EC2, IAM, S3), Git, Log4j, Eclipse, JUnit

PROJECTS**Real-Time Facial Emotion Recognition** | Orlando, FL

2024

- Developed a deep learning-based system using CNN & ResEmoteNet to classify emotions from facial expressions in real-time. Implemented OpenCV-based video processing and Squeeze-Excitation (SE) blocks for enhanced accuracy. Trained on the FER2013 dataset, achieving 62.6% (CNN) and 61.9% (ResEmoteNet) test accuracy.

Spam Email Detection | Orlando, FL

2024

- Developed an NLP and machine learning-based spam detection system utilizing TF-IDF for feature extraction. Trained classifiers such as SVM, Naïve Bayes, and Random Forest, and optimized them with Grid Search Cross-Validation. Employed an ensemble Voting Classifier to achieve over 98% accuracy and precision.

Pension Management System | Chennai, India

2021

- Architected a pension management system with Spring Boot for microservices, integrated Spring Security for authentication, and utilized Spring Core Annotations for dependency injection. Designed REST APIs with Spring MVC and created a responsive user interface using HTML, CSS, and Bootstrap.