# Mohan Babu Doddapaneni
## Full Stack Developer

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## SUMMARY

- **Full Stack Developer** with **5 years** of experience in building scalable web applications using **Java**, **Spring Boot**, **Angular**, **React**, **HTML5**, and **CSS3**, following **Agile** and **Scrum** practices with emphasis on clean code and modular design.
- Proficient in designing and consuming **RESTful APIs** and **GraphQL services** using **Spring MVC**, **Axios**, and **Postman**, with robust JSON handling, API versioning, and exception management across distributed systems.
- Skilled in implementing secure authentication and authorization using **JWT**, **Spring Security**, and **OAuth2**, and managing access control via **React Router** and **Angular Guards** for role-based permissions.
- Experienced in **microservices** and **CI/CD pipelines** using **Spring Cloud**, **Docker**, **Apache Kafka**, **Jenkins**, and **GitHub Actions**, and optimizing frontends with **Webpack**, **Redux**, and unit testing tools like **JUnit**, **Karma**, and **React Testing Library**.
- Hands-on experience with relational and NoSQL databases including **MySQL, PostgreSQL**, and **MongoDB**, optimizing data models and queries for high-performance web applications with caching using Redis.
- Strong expertise in deploying and monitoring applications on **AWS** and **Azure cloud platforms**, leveraging services like **EC2, S3, Lambda, and Application Insights** to ensure scalability, resilience, and observability.
- **Strong team player** with excellent **communication and collaboration** skills, fostering cross-functional coordination and driving successful project outcomes in fast-paced Agile environments.

## TECHNICAL SKILLS

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| **Frontend Technologies:** | HTML5, CSS3, JavaScript, TypeScript, ES6, React.js, Redux, React Hooks, Angular, Next.js, Tailwind CSS, Bootstrap, Material UI, Vite, Webpack, Angular Material |
| **Backend Technologies:** | Java, Spring Boot, Spring MVC, Spring Security, Hibernate ORM, Quarkus, Node.js, REST API, GraphQL, Microservices, Maven, Multi-threading, JSON:API, IBM Websphere server |
| **Cloud & DevOps:** | AWS (EC2, S3, Lambda, IAM), Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, GitHub Pages, GitLab CI/CD, ArgoCD, CircleCI, CodeShip, Istio |
| **Databases:** | PostgreSQL, MySQL, MongoDB, Cassandra, Redis, Oracle DB, SQL |
| **Testing & QA:** | JUnit, Mockito, React Testing Library, Jest, Cypress, Selenium, Postman, Insomnia |
| **Development Tools:** | Kafka, RabbitMQ, Git, Bitbucket, Swagger OpenAPI, SonarQube, Splunk, Grafana, IntelliJ IDEA, Visual Studio Code, Eclipse, Spring Tool Suite, RAD, Agile, Scrum, Jira |
| **Programming Languages:** | Java, Python, SQL, C++ |
| **Machine Learning & NLP:** | Scikit-learn, pandas, NumPy, spaCy |
| **Operating System:** | Windows, LINUX, Mac OS, Unix, Alpine |
| **Certifications:** | Microsoft Certified: Azure Fundamentals, Java Cloud Native Developer (Level 1 & 2) |

## WORK EXPERIENCE

**Athenahealth, Inc., MA, USA | Full Stack Developer**                                                      **Sep 2024- Present**

- Developed and deployed a Full-Stack Patient Application Tracking System using Spring Boot and React, enabling real-time patient registration, application monitoring, and dynamic dashboards for clinical workflows.
- Built secure, scalable RESTful APIs using Spring MVC, with AG Grid and Material UI to present real-time updates on application status, appointment history, and documentation milestones.
- Integrated role-based authentication and access control using Spring Security, JWT, and React Router, managing permissions for clinical and administrative users across 100+ staff members.
- Built a microservices-based architecture with Spring Cloud and enabled real-time data flow using Apache Kafka, while implementing Redux for consistent state management across multiple frontend components.
- Containerized backend services with Docker and implemented CI/CD pipelines through Jenkins, supporting automated builds, code quality checks, and seamless deployment with zero downtime.
- Optimized PostgreSQL database schemas to support large-scale storage of over 500,000 patient records, reducing query response times for audit logs and application history.
- Incorporated frontend testing using React Testing Library and optimized build performance with Webpack, achieving high test coverage and reducing front-end regressions.
- Implemented system monitoring with Prometheus and frontend notifications using Toastify, enabling proactive issue detection such as failed logins, system errors, and overdue actions.
- Deployed the application on AWS with auto-scaling, load balancing, and cloud monitoring tools to maintain 99.5% uptime and optimize infrastructure costs.
- Increased staff productivity by 30% with proactive alerts for missed appointments and pending approvals, streamlining the entire patient tracking lifecycle.

**Capgemini, India | Associate Consultant- Full Stack Development**                                    Sep 2020 - Jul 2023

- Led development of a responsive Angular web application hosted on AWS EC2, integrating JWT authentication, role-based access control, and form validation, reducing security vulnerabilities by 90%.
- Integrated advanced RxJS and NgRx patterns for reactive state management and Material UI components to improve user interactivity and dashboard responsiveness.
- Collaborated closely with backend teams to design and consume Spring Boot RESTful APIs, ensuring robust JSON handling, API versioning, and seamless integration via Axios and Angular's HTTPClientModule — improved deployment speed by 45%.
- Spearheaded the design of a mobile-first UI/UX framework using HTML5, CSS3, Bootstrap, and Flex Layout, achieving full cross-browser compatibility and improved customer retention.
- Migrated vulnerable log4j libraries across all Java microservices using Maven, and applied CVSS security patches while maintaining CI/CD pipelines via Jenkins, significantly improving audit compliance.
- Implemented comprehensive unit testing (using Jasmine, Karma, JUnit) and system testing protocols before deployment, ensuring the stability and reliability of production environments and reducing unplanned downtime by 35%.
- Successfully transitioned 18+ Java applications to Maven builds and deployed to IBM WebSphere Application Server, streamlining production release cycles and increasing deployment visibility.
- Applied frontend build optimizations such as Ahead-of-Time (AOT) compilation, lazy loading, Webpack chunking, and tree shaking, cutting load times by 25% and improving Lighthouse performance scores.
- Mentored and onboarded 3 junior developers, conducted code reviews, and enforced Git branching standards, elevating overall codebase quality and team productivity.
- Received the "PAT ON BACK" award for outstanding contributions to team collaboration, quality delivery, and client satisfaction.

**Birlasoft, India | Jr. Full Stack Developer**                                                        Jul 2019 – Aug 2020

- Contributed to the development of KYC onboarding modules using Angular and Reactive Forms, enabling the accurate registration of 5,000+ customer profiles with dynamic validation rules and seamless data capture.
- Supported the development of RESTful backend services using Spring Boot, optimizing JSON responses and reducing AML alert review time by 30% through structured data delivery.
- Implemented basic Spring Security configurations for login, logout, and role-based access control across 4 KYC functional modules to strengthen compliance.
- Designed and styled key UI pages with Thymeleaf, Bootstrap, and custom components, helping analysts easily flag and escalate suspicious activities — which accelerated KYC review processes by 25%.
- Authored optimized SQL queries for PostgreSQL to support real-time storage and retrieval of analyst comments, risk scores, and AML audit trails, handling 10,000+ transaction records.
- Participated in Agile standups, sprint reviews, and backlog grooming, gaining hands-on experience in collaborative delivery cycles and continuous feedback integration.
- Assisted with manual functional testing, documented defects, and collaborated with QA teams to ensure smooth handovers between development and testing phases.
- Shadowed senior developers and gained practical knowledge of Git version control, Maven builds, and REST API integrations, laying a strong foundation for full stack proficiency.

## EDUCATION

**Master's in computer science -** Clark University; Worcester, MA, USA
**Bachelor of Technology in Electronics and Communication Engineering -** JNTU Ananthapur, AP, India

## PERSONAL PROJECTS

**Career Path Recommendation System - AI-powered Resume Analyzer**                                      Apr 2025
(AI-Powered Web Application | Python, Django, spaCy, scikit-learn, PostgreSQL, Render)

- Designed and implemented an AI-based web application that analyzes resumes (DOCX) to recommend the best-matched career paths and roles using NLP and Random Forest classification.
- Integrated Random Forest algorithm for skill-to-role matching and job prediction; displayed relevant jobs and predicted job roles with percentage-based insights.
- Deployed on Render with PostgreSQL backend; ensured modular architecture with role-specific skill datasets, enabling real-time course and certification recommendations.

**Restaurant Ordering Portal - Full-Stack Food Ordering System**                                        Sep 2022

- Developed a restaurant ordering portal using Angular, HTML, CSS, and JavaScript to deliver a seamless user experience.
- Integrated server-side functionality with Java, enabling the system to handle and process over 300 orders efficiently while ensuring smooth backend integration.
- Designed a responsive UI with Angular to optimize the user experience across all devices, achieving 100% compatibility for mobile and tablet users