

# Mohanreddy Kondreddy

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## Professional Summary

Software Engineer with 3+ years of experience delivering scalable, high-performance applications. Proficient in developing modern frontends with React.js, Next.js, TypeScript to improve usability and accessibility. Strong knowledge in backend development using Java, Spring Boot, and Node.js, with expertise in designing secure RESTful and GraphQL APIs and building distributed microservices architectures. Experienced in deploying and scaling applications on AWS (EC2, S3, RDS, Lambda) and Azure, leveraging Docker and Kubernetes for automation and cloud-native reliability. Strong knowledge of databases including PostgreSQL, MySQL, MongoDB, and Redis, with expertise in query optimization and caching strategies. Knowledge in integrating streaming and real-time processing systems with Kafka and Spark to improve data-driven decision-making. Skilled in implementing application security with Spring Security, OAuth2, JWT, and role-based access control. Experienced in applying Generative AI and prompt engineering to automate workflows, enhance application intelligence, and improve end-user experiences.

## Education

**Masters in Science and Information Systems** | Saint Louis University, St. Louis (GPA:3.84)

**Bachelor of Engineering in Computer Science and Engineering** | Alliance University, India (GPA: 3.4)

## Skills

**Frontend Development:** React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Responsive UI Design

**Backend & Frameworks:** Java 17, Spring Boot, Spring MVC, Hibernate, Node.js, GraphQL, Microservices Architecture, .NET, C#, Go

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, CloudWatch), Azure, Docker, Kubernetes, CI/CD Automation, Infrastructure as Code

**Databases & Data Engineering:** PostgreSQL, MySQL, MongoDB, Cassandra, Redis, SQL Optimization, Kafka, Apache Spark

**Security & Compliance:** Spring Security, OAuth2, JWT, Role-Based Access Control (RBAC), Swagger/OpenAI, HIPAA Compliance

**Monitoring & Observability:** ELK Stack, Log Management, Application Performance Monitoring

**Testing & QA Tools:** JUnit, Postman, SOAP UI, Drools, Drools Rule Engine

**Collaboration & Methodologies:** Agile (Scrum/Kanban), Sprint Planning, Code Reviews, Version Control (Git, GitHub, GitLab, Bitbucket)

## Work Experience

### Capital One Financial, CA | Software Engineer Intern

Sep 2024 – Sep 2025

- Assisted in developing scalable backend services using Java 17, Spring Boot, and Hibernate, contributing to core banking modules and helping improve transaction handling speed and reliability.
- Collaborated with the frontend team to build dynamic dashboards using React.js, TypeScript, and Tailwind CSS, enhancing visibility into user accounts and improving customer interaction experiences.
- Supported integration of multi-source payment APIs using Kafka, Node.js, and GraphQL, to secure and consistent inter-bank data flow during live testing and deployment.
- Helped to optimize PostgreSQL and ElasticSearch queries to improve performance of data-intensive financial reports and account searches.
- Contributed to improve deployment reliability and reduce manual efforts by building automated CI/CD workflows with GitHub Actions, Docker, and Kubernetes.
- Assisted in securing microservices with Spring Security, OAuth2, and JWT to safe authentication and user access control during testing and participated in creating event-driven alert systems using Kafka Streams and WebSocket to faster issue response for financial transactions.
- Supported cloud infrastructure setup and monitoring on AWS using Terraform and CloudWatch, gaining hands-on experience in maintaining uptime and system performance.

### Deloitte, India | Analyst

Jul 2021 – Jul 2023

- Streamlined decision workflows by migrating 5000+ Oracle business rules into RedHat Drools using Java, which reduced rule execution defects and improved operational accuracy across business processes.
- Delivered 10+ secure, scalable REST APIs and backend services for healthcare and enterprise systems using Spring Boot microservices, effectively onboarding teams and improving employee benefits processes.
- Enhanced data processing performance by optimizing MySQL and PostgreSQL databases to handle 1M+ records daily, increasing system throughput, reliability, and operational efficiency.
- Automated CI/CD pipelines using Jenkins, Docker, and Kubernetes, streamlining feature deployments across multiple environments, reducing rollback incidents by 30%, and ensuring HIPAA-compliant production releases for critical services.
- Integrated the ELK Stack for real-time application monitoring and centralized logging, improving issue detection and debugging speed and reducing time-to-resolution for production incidents.
- Strengthened team capability by leading code reviews, knowledge-sharing sessions, and mentoring junior developers in Java, Drools, and best engineering practices in an Agile environment.

## Projects

### Preventing and Detecting Data Discharge Analysis: [GitHub](#)

- Designed a web application which helps to avoid Data loosing from various aspects within an Organization. This application will provide and monitor the data transaction. Java, HTML5, CSS2, JavaScript, PHP, and MySQL, technologies were used.

### Unified HealthCare Reporting System: [GitHub](#)

- Designed an application using Java, JSP, HTML, CSS, Bootstrap, JQuery, JavaScript and MySQL technologies to track and generate reports on key operational metrics such as a patient visit trends, resource utilization, provider workload, and financial claims processing, using the Synthea dataset, a simulated healthcare data, to develop and test the reporting functionalities.

## **Training and Internship**

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### **Training**

- Full Stack Development Training from Deloitte Launchpad, Deloitte Consulting USI. – 2months
- Attended Technical training on Java development from JSpiders training and development Institute, Bangalore.

### **Internship - TechCiti Technology Pvt. Ltd.**

- Interned as a software developer. Project: Preventing and Detecting Data Discharge Analysis using Java, HTML, CSS, JavaScript, PHP, and MySQL technologies.

## **Extracurricular Activities**

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### **Graduate International Student Ambassador - Saint Louis University**

- Assisted over 100 international students with their transition to university, providing guidance on academic resources and student services.
- Distributed 250+ student ID cards and metro passes, contributing to smoother student onboarding and fostering an inclusive campus environment.

### **Placement Coordination Team – Alliance University**

- Supported placement drives for 230+ students, contributing to a 30% increase in successful placements.

### **Volunteer – University Fest, Alliance University**

- Led a team of 10+ volunteers to organize a successful university festival for 650+ attendees, managing logistics, schedules, and resources.

### **Certifications [Link](#)**

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Amazon Junior Software Developer | AWS Solutions Architect – Associate – AWS | Automation with Drools | Docker Certified Associate (DCA) | Programming with Go (UC Irvine)