

Mohanreddy Kondreddy

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Professional Summary

Software Engineer with 5+ years of experience delivering scalable, high-performance applications. Proficient in developing modern frontends with React.js, Next.js, TypeScript to enhance 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. Strong 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, Express.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/OpenAPI, HIPAA, GDPR 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

Sep 2024 – Current

- Architected highly scalable backend systems using Java 17, Spring Boot, and Hibernate, implementing complex banking logic and advanced loan workflows, improving transaction throughput by 25% and processing over 12k monthly banking requests efficiently with minimal latency.
- Engineered dashboards with React.js, TypeScript, and Tailwind CSS, providing real-time insights into account balances, transaction history, and portfolio analytics, significantly reducing customer support queries by 22% and enhancing overall user satisfaction and engagement.
- Integrated multi-source payment APIs using Kafka, Node.js, and GraphQL, ensuring secure inter-bank transaction processing, reducing failed transaction volumes by 1,200 monthly, and improving operational reliability for critical high-value financial operations.
- Optimized database performance using PostgreSQL and Elasticsearch, accelerating account searches, report generation, and data retrieval by 1.7x, enabling high-concurrency banking operations and faster access to essential financial information.
- Automated CI/CD pipelines using GitHub Actions, Docker, and Kubernetes, streamlining deployments across AWS Lambda, EC2, and S3 environments, improving release efficiency, reducing rollback incidents by 30%, and ensuring continuous delivery of critical banking services.
- Implemented secure microservices using Spring Security, OAuth2, and JWT, enforcing strict role-based access control for internal staff and customers, mitigating over 20 unauthorized access attempts annually.
- Designed event-driven real-time alert systems using Kafka Streams, WebSocket's, and Node.js, enabling instant notifications for high-priority transactions, reducing average response times by 15 minutes per incident, and improving operational efficiency across banking departments.
- Orchestrated cloud infrastructure and monitoring with Terraform and CloudWatch, optimizing resource allocation, maintaining high availability for 15+ banking services, and improving incident detection and resolution by 40%, ensuring uninterrupted operations.

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.

Fusion Software Technologies, India | Software Engineer

Jan 2019 – Jun 2021

- Improved code maintainability and accelerated development velocity by designing reusable custom React hooks that encapsulated complex DOM manipulation and event handling, reducing code duplication across multiple modules by 30%.
- Designed and developed APIs leveraging microservice architecture, utilizing Spring Boot for efficient development and JMS for asynchronous communication with Kafka as the message broker.
- Incorporated service discovery, centralized configuration, and client-side load balancing in microservices using Eureka, Spring Cloud Config, and Ribbon, enhancing failover and resilience capabilities.
- Participated in the full software development lifecycle, contributing to requirements gathering, technical specifications, code reviews, and quality assurance. Ensured high-quality software delivery using Agile and DevOps methodologies.
- Crafted a GraphQL schema to model complex relationships, reducing data transfer and improving application responsiveness.

Certifications

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