

Neha Gaddam

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EXPERIENCE

American Express, Software Engineer (Contract), New York, NY October 2024 - Present

Tech stack: Kotlin, Java, Spring Boot, OpenSearch, JUnit, Redis, React, Typescript, Docker, Github, Postman, Jira

- Developed and optimized enterprise-scale rewards management microservices with multi-layer Redis caching using Kotlin, Java and Spring Boot with multi-threading capabilities, displaying personalized benefits and trackers.
- Integrated third-party dining reservations and travel booking services to deliver real-time availability enabling seamless account linking. Synchronized transaction and rewards data across various financial products including credit cards and deposit accounts.
- Enhanced operational excellence by implementing ELK stack logging with intelligent tagging maintaining 99.9% API uptime while handling millions of monthly transactions through performance monitoring and data-driven optimization.
- Modernized customer-facing advertising portal using React and TypeScript, implemented theming capabilities that increased user satisfaction scores by 25%, including dark mode support that improved usability metrics and reduced maintenance costs by 30%.

Prudential Financial, Software Engineer (Contract), Newark, NJ September 2023 - September 2024

Tech stack: Java 17, Spring Boot, Spring Cloud Gateway, Apache Kafka, Docker, Kubernetes, Oracle Database, Redis, SQL, JDBC

- Spearheaded migration of monolithic fund administration platform to microservices architecture using Java 17, Spring Boot, Docker/Kubernetes, decomposing legacy system into 25+ scalable microservices handling 5M+ daily transactions.
- Designed and deployed Spring Cloud Gateway for API orchestration across distributed services, implementing circuit breaker patterns, load balancing, and security protocols to improve system scalability and reduce deployment complexity.
- Optimized fund processing performance through Oracle SQL query refactoring, Redis distributed caching implementation, and Spring Batch parallel processing framework for NAV calculations and end-of-day reconciliation operations.

Syracuse University, Software Developer, Syracuse, NY August 2022 - September 2023

- Developed a scalable data platform using Python Flask with PostgreSQL database and Redis caching to automate document ingestion, preprocessing, and indexing, processing over 10k research documents daily with Apache Airflow orchestrating complex ETL workflows and providing real-time status updates to faculty researchers.
- Designed and implemented resilient streaming data architecture using Apache Kafka for distributed messaging and Apache Flink for real-time stream processing, ensuring accurate, granular, and timely data flow across multiple academic research systems with sub-second latency.

NCR Corporation, Software Developer, Hyderabad, India January 2020 – August 2022

- Developed a restaurant employee management and POS system using Spring Boot to implement microservices, ensuring scalability, and high performance across modules like employee scheduling, order tracking, and inventory management.
- Implemented CI/CD pipelines using AWS CodePipeline and Docker, enabling automated deployments and ensuring continuous integration for efficient software delivery and faster iteration cycles.

Progress Software, Software Developer, Hyderabad, India May 2018 – December 2019

- Developed event-driven e-commerce platform using Spring Boot backend, implementing RESTful APIs for product management, order processing, and user authentication with JWT token-based security.
- Built responsive React frontend with Redux for state management, integrating with backend APIs to deliver seamless shopping cart functionality, real-time inventory updates, and dynamic product filtering.

PROJECTS

Distributed Real-Time Anomaly Detection System

- Designed and implemented a scalable anomaly detection platform processing 10K+ events/second with sub-second latency, using Kafka, Spark Streaming, Isolation Forests, and deep learning models (TensorFlow).

Driver Drowsiness Detection

- Developed a real-time system that detects driver drowsiness by monitoring eye closure and yawn rate using Python, OpenCV, TensorFlow for facial detection and a CNN model, achieving 98% accuracy.

EDUCATION

Syracuse University - Master of Science, Computer Science, Syracuse, NY GPA: 3.86 / 4

Coursework: Natural Language Processing, Machine Learning, Data Science, Artificial Intelligence, Data Mining, Algorithms

Vasavi College of Engineering - Bachelor of Science, Computer Science, Hyderabad, India GPA: 8.5 / 10

TECHNICAL SKILLS

Web: React, Redux, Styled Components, Webpack, Babel, Jest, React Testing Library, TypeScript, Bootstrap, Material UI, Tailwind CSS, Responsive Design, Web Accessibility, Django, Node.js, Express, Spring Boot, RESTful APIs, Microservices, Fast API, Rust

CI/CD, Cloud: GitHub Actions, Docker, Kubernetes, AWS CodePipeline, Jenkins, AWS (Lambda, EC2, S3, CloudFront, CloudWatch, Route 53)

Other: TCP, IP, SMTP, REST, SSL, HTTP Responsive Design, SQL, NoSQL, Oracle, RDBMS, Web Accessibility (WCAG), Performance Optimization, Figma, Jira, Agile Methodologies, Windows, Linux, AWS Certified Cloud Practitioner ([link](#))