

Kushal Kumar Reddy K

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PROFESSIONAL SUMMARY

5+ years of professional experience building scalable, performant web applications using React.js, TypeScript, Node.js, and Spring Boot. Strong command over frontend engineering, API integrations, cloud deployment (AWS), and test-driven development. Proven ability to deliver high-quality code in fast-paced Agile environments. Strong background in **Agile teams, CI/CD pipelines** (GitHub Actions, Jenkins), and test-driven development using **Jest** and **React Testing Library**. Proven ability to drive results in both enterprise and academic environments. Actively seeking U.S.-based frontend/full-stack roles.

TECHNICAL SKILLS

Frontend: React.js, TypeScript, JavaScript (ES6+), Redux Toolkit, Zustand, React Query, Next.js, Context API, Tailwind CSS, HTML5, CSS3

Core Libraries: React Router, React Hook Form, Formik, Axios, Classnames, Lodash, Day.js, React Icons, Chart.js, Styled Components

Backend: Node.js, Express.js, Java (8+), Spring Boot, Spring MVC, GraphQL, REST APIs, Microservices, Kafka, JWT, OAuth

Cloud & DevOps: AWS (EC2, S3, IAM, CloudWatch, Route 53), Docker, GitHub Actions, Jenkins, Azure DevOps, Terraform (basic), SSR, Logback (for logging)

Databases: PostgreSQL, MongoDB, MySQL, SQL Server

Testing & QA: Jest, React Testing Library, Mocha, Chai, Postman, Swagger, TDD/BDD

Tools & Methods: Git, GitHub, Bitbucket, JIRA, Confluence, Agile (Scrum/Kanban), SDLC, UAT, Design Patterns

PROFESSIONAL EXPERIENCE

Software Engineer - EdgeWave Technologies. (Remote)

September 2023 – Present

Project: Enterprise Workflow Automation Platform

- Designed and deployed secure, multi-tenant **GraphQL** and **RESTful APIs** using **Node.js, Express**, and **JWT-based middleware** for role-based access control - enabling isolated client environments and ensuring secure API authorization flows.
- Integrated core AWS services including **EC2, S3, IAM**, and **CloudWatch** to support file uploads, backend deployment automation, and infrastructure monitoring - resulting in improved uptime, audit traceability, and operational observability.
- Implemented robust **CI/CD pipelines** using **GitHub Actions** to automate linting, unit tests, and deployment stages - including rollback capabilities, build validations, and staging previews, improving reliability and developer velocity.
- Boosted frontend load time by 35% through advanced performance optimizations including dynamic **code-splitting**, **react lazy loading**, and **Webpack bundle** size reduction - significantly enhancing performance for low-bandwidth users.
- Achieved and maintained over **85% unit and integration test coverage** using **Jest** and **React Testing Library**, with automated **pre-commit hooks** enforcing linting, test validation, and preventing regressions in critical workflows.

Software Engineer- Nykaa, Hyderabad, India.

February 2020 – November 2022

Project: High-Traffic E-Commerce Platform for Fashion & Beauty

- Delivered responsive, accessible, and **WCAG-compliant UI** using **React.js, TypeScript**, and **Context API** - optimized for mobile devices and screen readers, resulting in a **15% increase in mobile conversion rate** and improved UX metrics.
- Built backend microservices in **Spring Boot** for pricing, inventory, and order logic, reducing deployment risk by **30%**.
- Integrated **Apache Kafka** into **Spring Boot** microservice architecture to enable **asynchronous processing**, real-time event streaming, and decoupled inter-service communication - ensuring stability and throughput during flash sale traffic spikes.
- Developed **GraphQL endpoints** to serve optimized product listing queries, dynamic filters, and on-demand content loading, reducing API payload sizes by **40%** and improving frontend rendering efficiency.
- Implemented secure authentication using **JWT** and **refresh tokens** across web and progressive web app layers - ensuring persistent sessions, user continuity, and secure token-based re-authentication for over **10M monthly users**.
- Containerized Java-based backend microservices with **Docker** and deployed them on **AWS EC2**, integrating **CloudWatch** for proactive monitoring and alerting; additionally, Led **UAT planning and execution** within **Agile sprints** - reducing incident escalations by **20%** and achieving **95% feature acceptance rate** with strong stakeholder alignment.

EDUCATION

- Master of Science in Data Science University of North Texas, Denton, TX. – Graduated in Dec 2024. GPA – 3.83/4.00.