RUTHVIK KUMAR LAKKA

SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Java Full Stack Engineer, experience in building scalable, cloud-native applications. Proficient in Java, Spring Boot, RESTful APIs Angular, and SQL, with hands-on expertise in AWS and Docker containerization. Strong background in Agile delivery, CI/CD pipelines, and cross-functional collaboration to deliver high-performance software solutions.

PROFESSIONAL EXPERIENCE

Backend Developer, Fact Finders Pro   **Oct 2024 - May 2025**

- Developed distributed microservices in Java and Spring Boot running on containerized EC2 workloads, improving request throughput and cutting end-to-end latency by 40%.
- Engineered a high-throughput ingestion pipeline integrated with Kafka and AWS Lambda serverless processors to handle text, image, audio, and video submissions, supporting thousands of events per day with 40% faster peak-load responsiveness.
- Optimized thread management and non-blocking request handling in backend services, reducing contention under load and improving stability during traffic spikes.
- Implemented durable storage flows using DynamoDB and S3, enabling fast retrieval of verification snapshots maintaining 100% traceable audit history across teams.
- Built secure, schema-driven REST interfaces with request validation and error-handling logic, reducing malformed inputs and improving API reliability by 35 %.
- Established end-to-end observability using AWS CloudWatch dashboards, consumer-lag tracking, and structured JSON logs, improving failure detection and cutting mean-time-to-debug by 25%, resulting in higher platform uptime and smoother operations.
- Automated delivery using GitHub Actions with build/test/deploy pipelines, shortening release cycles by 70 % and increasing deployment consistency across environments.

Software Engineer, Infosys   **Jun 2019 - Jul 2022**

Global Pricing Configurator (Bain & Company)

- Developed the core pricing engine using Java, Spring Boot, and SQL Server, enabling partners to apply rules, discounts, and regional adjustments with fast computation and consistent output quality.
- Built an interactive front-end using JavaScript, Angular with reusable components for SKU selection, configuration, mid-year adjustments, and multi-country pricing, reducing user errors and improving workflow speed.
- Designed a modular backend framework that supported dynamic loading of 200+ SKUs, allowing admin teams to onboard new products and pricing rules without downtime.
- Implemented high-performance data access using PostgreSQL stored procedures, optimized queries, and caching, improving response times for complex pricing scenarios.
- Automated delivery pipelines using Kubernetes, Docker Compose, and CloudFormation, ensuring stable multi-region deployments and reducing release time by 30 %.
- Wrote unit, integration, and end-to-end tests across frontend and backend, reducing defects by 30%.

Internal Automation Tools

- Developed automation utilities using Java and Spring Boot deployed on AWS EC2, reducing repetitive manual workflows for internal teams.
- Built UI components in React for internal dashboards, improving clarity and reducing approval turnaround time.
- Supported CI/CD automations using Docker and Jenkins, accelerating sprint deployment cycles.

PROJECT EXPERIENCE

AI Text Summarizer -*Python, React, FastAPI, OpenAI*

- Built an AI-powered text summarization web app using FastAPI, React, and OpenAI GPT models, supporting multi-style summaries (abstract, bullet points, ELI5) for raw text and news URLs.
- Implemented backend APIs for URL scraping, prompt orchestration, and hierarchical summarization, handling long documents and reducing manual reading time by over 70% in test use cases.

EDUCATION

Master of Science in Computer Science | Flagstaff, AZ, USA
NORTHERN ARIZONA UNIVERSITY
B.Tech. in Computer Science | Chennai, INDIA
ST. JOSEPH'S INSTITUTE OF TECHNOLOGY

TECHNICAL SKILLS

Programming Languages: Java, JavaScript (ES6+), HTML, CSS, SQL, Python, TypeScript
Technologies: Spring/Spring Boot, Angular, ReactJS, RESTful APIs, Node.js, Microservices, Kafka, Redux
Databases: PostgreSQL, Oracle DB, MySQL, DynamoDB
Cloud & DevOps: AWS (S3, EC2, Lambda, API Gateway, CloudFormation, Cloudwatch EKS), Git/GitHub, Confluence, Docker, Kubernetes, Github Actions, Jenkins
Tools & Methodologies: Jira, Visual Studio Code, Agile, Cucumber, Scrum, Unit / Integration Testing, JUnit, JWT Authorization
Other Skills: OOP**,** Problem Solving, Documentation, Cross- Functional Collaboration, Critical Thinking, Communication