



ROHITH KANKIPATI

Software Development Engineer

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PROFILE SUMMARY

- **Experienced Software Engineer** with over 3 years of experience in developing scalable and robust enterprise applications using **Java** and **Spring Boot**.
- Proficient in building and integrating **RESTful APIs** and **SOAP** services, ensuring seamless client-server communication and efficient data processing.
- Strong background in **frontend development** using **React** and **Angular**, creating responsive and interactive user interfaces.
- Expertise in cloud technologies, including **AWS (EC2, S3, Lambda, ECS)** and **Google Cloud Platform (GCP)**, with experience in infrastructure automation using **Terraform** and **AWS CloudFormation**.
- Skilled in working with **SQL** and **NoSQL** databases, including **PostgreSQL**, **MySQL**, **Oracle (PL/SQL)**, and **MongoDB**, optimizing database interactions for performance and scalability.
- Hands-on experience with **DevOps** and **CI/CD** tools such as **Jenkins**, **GitLab**, **Docker**, and **Kubernetes**, streamlining deployment processes and maintaining high availability systems.
- Strong understanding of **distributed systems** and messaging solutions like **Apache Kafka** and **Redis**, enhancing real-time data processing and caching efficiency.
- Proven track record in **Agile development methodologies** (SCRUM, Lean, and SAFe), successfully delivering projects in collaborative, cross-functional teams.
- Passionate about continuous learning, with a commitment to leveraging new technologies and practices to enhance software quality and efficiency.

SKILLS

Programming Languages	Java 11, Java 8, Python, JavaScript, TypeScript, SQL
Backend & API Development	Spring Boot, Spring MVC, Spring Cloud, Spring Batch, Spring Security, J2EE, Struts, Hibernate, RESTful APIs, SOAP, WebSocket
Web & Frontend Technologies	HTML5, CSS3, JavaScript, TypeScript, JSON, XML, AJAX, jQuery, React, Angular, Bootstrap
Cloud & Infrastructure Technologies	AWS (EC2, S3, Lambda, ECS, RDS, DynamoDB, Aurora, CloudFront, Route 53, API Gateway, SNS, SQS, VPC, Auto Scaling (ASG), ALB, CloudWatch, CloudTrail), Google Cloud Platform (GCP), AWS CloudFormation, Terraform
Databases	PostgreSQL, MySQL, Oracle (PL/SQL), Amazon RDS, MongoDB, Amazon DynamoDB, Amazon Aurora, Elasticsearch
Distributed Systems & Messaging	Apache Kafka, Redis, AWS ElastiCache
DevOps & CI/CD Tools	Jenkins, Git, GitLab, GitHub Actions, AWS CodeDeploy, Maven, Docker, Kubernetes, Datadog, New Relic, Splunk
Testing & Automation Tools	JUnit, Mockito, AssertJ
Operating Systems & Scripting	Windows, Linux, Unix, Mac, Unix Shell Scripting
Development Methodologies	Agile (SCRUM, Lean), Scaled Agile Framework (SAFe)

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03)

AWS Certified Developer – Associate

Infosys Certified Software Programmer

EDUCATION

- M.S. Computer Science, **University of Maryland Baltimore County, Baltimore, MD**
- B. Tech. Computer Science and Engineering, **Andhra University, Visakhapatnam, India**

May 2024

Sep 2020

WORK EXPERIENCE

University of Maryland, Baltimore County,

Research Assistant

Baltimore, MD

Aug 2023 – May 2024

- Developed a scalable cloud-based platform using **Java**, **AWS Lambda**, and **S3** for video processing and object detection, integrating **machine learning models** for analytics.
- Built front-end dashboards using **React** and **JavaScript**, improving user engagement through interactive visualizations.
- Established data pipelines with **DynamoDB**, **Amazon RDS**, and **AWS S3**, ensuring efficient data management and retrieval.
- Automated model deployment with **AWS ECS**, **SageMaker**, **CloudWatch**, and **SNS**, enabling real-time alerts and auto-scaling.
- Created backend services using **Spring Boot**, ensuring secure and scalable API development in alignment with full **SDLC** processes, from requirements analysis to deployment and maintenance.
- Leveraged **Kafka** and **Redis** for real-time message-driven processing and caching, improving efficiency.
- Focused on memory management and performance optimization, ensuring low-latency responses.
- Employed testing tools like **JUnit** and **Mockito** for robust code verification and high test coverage.
- Maintained **CI/CD** pipelines using **GitLab**, ensuring consistent code integration, monitoring through **Splunk**, and smooth deployment across environments.

Infosys Ltd.

Software Development Engineer (formerly Specialist Programmer)

Hyderabad, India

Dec 2021 – Aug 2022

- Built RESTful APIs using **Spring Boot** and **Java**, enhancing backend architecture and achieving efficient response times through **Redis** caching and query optimization.
- Developed and deployed a multi-language compilation engine using **Java Spring Boot**, **Docker**, **AWS ECS**, and **Redis Streams**, optimizing the system for handling large-scale coding competitions and ensuring robust microservices integration.
- Optimized database interactions using **Hibernate**, **Spring Data**, and **PL/SQL** with **Oracle**, enhancing performance and managing complex database operations for scalable and efficient system architecture.
- Designed and implemented user interfaces with **React**, **Bootstrap**, and **JavaScript**, ensuring cross-device compatibility and an improved user experience.
- Managed task queues and caching mechanisms using **AWS SQS** and **ElastiCache**, supporting distributed architecture and scalable system operations.
- Secured APIs with **OAuth2** and **Spring Security**, providing role-based access control and API protection.
- Automated deployment pipelines with **Jenkins**, **Maven**, **Kubernetes**, **UNIX shell scripting** and **AWS CodeDeploy**, streamlining CI/CD practices for efficient software delivery.
- Implemented monitoring and logging with **AWS CloudWatch** and **CloudTrail**, improving observability and proactive issue resolution.
- Actively contributed in Agile teams, utilizing **SCRUM** and **Lean** methodologies for feature delivery and project milestones.
- Utilized **Apache Kafka** for building real-time telemetry systems, enhancing data analysis and system activity tracking.

Infosys Ltd.

Junior Software Developer (formerly Digital Specialist Engineer)

Hyderabad, India

Nov 2020 – Dec 2021

- Built and integrated REST APIs using **Java Spring Boot** with **React** and **RxJS**, enabling seamless client-server communication and improved system performance.
- Developed and deployed telemetry systems using **Kafka** and **AWS Lambda** for real-time contest activity tracking, storing results in **Amazon RDS** for quick reporting.
- Automated infrastructure provisioning and deployment pipelines with **Terraform**, **Kubernetes**, **Jenkins**, **UNIX**, **Maven**, and **AWS CodeDeploy**, streamlining IaC practices for efficient cloud infrastructure setup and management.
- Improved API performance through **Redis** caching and SQL query optimization, achieving sub-50ms response times.
- Spearheaded the migration of backend services from a monolithic architecture to a microservices-based system, enhancing scalability and system flexibility.
- Conducted automated testing with **JUnit** and **Mockito**, achieving high test coverage and reducing post-deployment issues.
- Engaged in Agile development practices, participating in **SCRUM** sprints for consistent and iterative development.
- Collaborated with teams using **Git** for version control and code integration, ensuring smooth collaboration and delivery.
- Built secure systems with **OAuth2** integration and implemented monitoring using **AWS CloudWatch**, enhancing the overall system's reliability.
- Optimized database interactions with **Hibernate**, **Spring Data** and **MongoDB**, enhancing performance and system scalability.

DBAce Technologies Pvt. Ltd.

Software Engineer Intern

Hyderabad, India

Jun 2020 – Oct 2020

- Developed SOAP-based web services using **Java** and **Struts**, integrating with legacy systems and enterprise applications.
- Documented processes and system architecture, ensuring compliance with **SAFe** methodologies for effective project management.
- Created responsive web pages using **HTML**, **CSS**, and **Bootstrap**, enhancing multi-device user experience.
- Built and monitored APIs using **J2EE**, ensuring efficient service integration and communication.
- Collaborated using **Git** for version control, supporting efficient code integration.
- Participated in **SCRUM** sprints, contributing to feature planning and timely delivery.
- Optimized database systems using **Postgres** and SQL tuning, improving data management capabilities.
- Automated builds and deployments using **Jenkins** and **Docker**, ensuring efficient rollouts.
- Implemented **OAuth** for secure API access and protected sensitive application data.
- Gained hands-on experience with RESTful APIs, enhancing integration and client-side interaction.

Computer Society of India, Anil Neerukonda Institute of Technology and Sciences

Visakhapatnam, India

Technical Coordinator & Coding Club Lead

Jul 2019 - May 2020

- Managed a coding club, organized coding contests, and created coding questions.
- Contributed to developing the college website, using **HTML**, **CSS** and **JS**.

PUBLICATIONS

- *"Descriptor: Smart Event Face Dataset (SEFD),"* IEEE Data Descriptions, 2024. doi: [10.1109/IEEEDATA.2024.3485026](https://doi.org/10.1109/IEEEDATA.2024.3485026).

PROJECTS

E-commerce Application for Liquor Store

GitHub (Backend) : [Backend Repository](#), GitHub (Frontend) : [Frontend Repository](#)

- Developed a full-stack e-commerce platform for a liquor store with **React** frontend and **Java Spring Boot** backend, ensuring a seamless shopping experience.
- Integrated **Elasticsearch** for product search and auto-suggestions, improving search efficiency and user experience.
- Utilized **AWS S3** for frontend hosting, **AWS CloudFront** for content delivery, and **AWS Route 53** for domain management, ensuring fast and secure global access.
- Deployed backend services on **AWS EC2** using **Jenkins** for CI/CD, and managed infrastructure with **AWS CloudFormation**, including security groups, **VPC**, **Elastic Load Balancing (ALB)**, and **Amazon RDS** with **Postgres** for efficient and scalable database management.

Loan Application Platform

- Developed a web-based platform using **React** to allow users to fill out loan applications with **Google Maps API** for address autofill and **Google reCAPTCHA** for verification.
- Built a secure portal for users to view and manage applications, using **Amazon Aurora** for storing application data and **Kafka** for real-time updates.
- Integrated real-time notifications using **AWS SNS** to provide status updates. Implemented auto-scaling (**ASG**) and **CloudWatch** logs for high availability and monitoring.
- Deployed backend services using **Node.js** on **Google Cloud Platform (GCP)**, integrated **New Relic** alongside **Datadog** for comprehensive performance monitoring, logging, and metrics tracking.

Task Management Application

GitHub (Backend) : [Backend Repository](#), GitHub (Frontend) : [Frontend Repository](#)

- Developed a **task scheduling platform** using **Angular** for the frontend and **Java Spring Boot** for the backend, enabling users to create, update, and manage daily tasks.
- Built a real-time notification system using **WebSocket** for instant updates, ensuring a seamless user experience.
- Used **MongoDB** for task data storage, providing scalable and efficient management of user tasks and schedules.

TECHNICAL EXPERTISE

- Solved 500+ problems on LeetCode.
- Won 1st place in a data structures and algorithms coding competitions at Andhra University consecutively from 2017-2019.