

Rahul Anand

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EDUCATION

Vellore Institute of Technology

B.Tech in Electronics and Communication Engineering - CGPA: 8.55

July 2018 – July 2022

Chennai

WORK EXPERIENCE

Software Development Engineer-2

August 2025 – Present

Rupeek

Bengaluru, India

- Architected and orchestrated a flexible gold-release and renewal feature with lenders using **Camunda Zeebe, Microservices (Spring Boot , NodeJS)**, allowing partial gold redemption and seamless loan renewals on existing gold ;boosting customer retention by **30%** and revenue growth by **20%**.
- Implemented **SAML 2.0 Single Sign-On (SSO)** for **Lender Partners** with their **IdAM** as IdP and **Rupeek** as SP, eliminating redundant logins and reducing authentication failures by **30%**.
- Led a phased migration of a **legacy JS service to Java Microservice** by introducing a **Facade layer** to direct traffic and enable zero-downtime transitions, standardizing service interactions through well-defined design patterns.
- Owned and led the end-to-end delivery of the **Lender Integration Service**, designing a scalable communication layer to integrate with multiple external lenders, and driving technical architecture and production rollout for business-critical loan workflows.

Senior Software Engineer

August 2024 – July 2025

Bajaj Finance Limited

Pune, India

- Engineered and developed **Semantic Search engine** using **pgVector** and **OpenAI embeddings**, enabling **top-K similarity search** with query rewriting and taxonomy-based filtering, improving knowledge discovery efficiency by **40%**.
- Developed and delivered a **distributed, priority-driven event orchestration system** (inspired by Meta's FOQS) to manage large-scale **asynchronous workflows across microservices**, dynamically scheduling events with variable wait times and dispatching them to Kafka for parallel processing , this improved workflow throughput and SLA adherence by **35%**.
- Devised an **asynchronous callback system** with Kafka and DLQ, reducing TAT by over **70%** through transition from synchronous REST calls, with retries, visibility timeout handling, and fault tolerance.
- Engineered and deployed Rapid LR, a **modular re-engagement system** that automatically sends targeted communications (SMS, push notifications, calls) based on Biz Logic. This solution increased lead conversions across digital channels by **35%**.
- Integrated **8 distinct workflows** into the system, driving MAU growth by **25%** and achieving an exceptional **98.6%** increase in conversion rate for a specific workflow.
- Piloted use of **Small Language Models (SLMs) like Qwen ,Gemma** within **RAPID LR** flows to auto-generate **personalized emails**, improving click-through rates by **7%** in pilot runs.
- Led the development of a **scalable** data streaming architecture by leveraging **microservices** using Java , Spring Boot and **Apache Kafka**. Boosted revenue by **40%** and minimized Turnaround Time (TAT) by **15%**.

Software Engineer

July 2022 – July 2024

Bajaj Finance Limited

Pune, India

- Created a reusable **SDK for TimeSeries DB**, standardizing data operations across **15+ services** and **reducing time to market by 20%** through consistent, scalable integration.
- Increased throughput by **30%** and reduced latency during peak loads by optimizing queries and indexing on **Azure Cosmos DB (NoSQL)**, ensuring high performance under heavy traffic.
- Elevated Collections efficiency by **30%** with Geo-Tagging and Data Enrichment initiatives, employed **Java multithreading** to process **90 million** records efficiently.

CERTIFICATIONS

AZ-900: Microsoft Azure Fundamentals

Issuing Organization - Microsoft

Dec 2022

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C#

Technologies: Spring Boot, REST API, JPA, Hibernate, Node.js, Express.js, Apache Kafka, Camunda, Grafana

Cloud Services: Azure Event Hub, Azure Data Explorer, Azure Table Storage, Azure Blob Storage, Azure App Service, Azure Functions, AWS SQS, AWS S3 , AWS Aurora

Databases & Storage: MongoDB, PostgreSQL, MySQL, Cosmos DB, Redis, Elasticsearch, Vector Databases (pgVector)

AI/ML: Small Language Models (SLMs), Large Language Models, Retrieval-Augmented Generation (RAG), OpenAI APIs, Groq AI, Spring AI, Embeddings (text-embedding-3-large), PydanticAI

DevOps & Tools: CI/CD Pipelines, Git, Azure DevOps, Jenkins, Docker, Kubernetes, Postman, IntelliJ IDEA, Maven

PROJECTS

YouTube Automation

- Engineered a scalable multi-agent system for automating content creation using **Python** and **PydanticAI**, implementing a programmatic agent handoff pattern for orchestration.
- Implemented robust **error handling** and **validation logic** between agent transitions, ensuring consistent quality output and seamless content processing.