

Akash S

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EXPERIENCE

Oracle

Jul 2025 – Present

Associate Consultant (Backend Engineering)

Bengaluru, India

- Engineered core transactional payment flows in **Java 21 & Spring Boot** for the enterprise banking platform, scaling asynchronous ledger processing to **1.2M+ daily transactions** with zero balance discrepancies.
- Engineered responsive corporate banking interfaces using **Oracle JET (OJET), TypeScript, and Web Components**, implementing MVVM state management and WebSocket feeds to stream real-time settlement telemetry.
- Built a high-concurrency balance check and transaction rule engine using **Java Virtual Threads (Project Loom)**, concurrently evaluating 1,000+ financial risk rules and slashing weekly batch runtime by **60%**.
- Designed an event-driven payment reconciliation pipeline using **Apache Kafka** and **Redis distributed locks**, eliminating race conditions and ensuring idempotent double-entry ledger settlement.
- Optimized end-of-day (EOD) core banking batch engines in **PL/SQL and Oracle Database**, authoring bulk-collection routines (**FORALL / BULK COLLECT**) that cut database CPU utilization by **30%** during peak settlement.
- Integrated **TypeSafe Jev (System One model)** as a non-autoregressive decision layer for real-time payment fraud triage, replacing regex-based rule filters with **RLCD-trained** confidence-scored classification — cutting false-positive fraud alerts by **40%** at sub-100ms inference latency.
- Implemented **LLM observability** using **LangSmith and OpenTelemetry** to auto-trace and evaluate every AI agent response for hallucinations and accuracy drift — catching bad outputs before users and reducing AI incidents by **55%**.
- Built an **AI agent** using **Spring AI and MCP** that connects to internal banking APIs, lets ops teams ask questions in plain English — auto-pulls account data, runs risk checks, and drafts compliance reports, resolving **78%** of L1 queries without human intervention.

Baymap Systems

Sept 2024 – April 2025

Software Development Engineer Intern

Bengaluru, India

- Developed core backend microservices for a media streaming platform using **Java, Spring Boot, and Spring Security**, securing **5,000+ active user profiles** via stateless JWT and granular role-based access control (RBAC).
- Implemented multi-tier caching with **Redis (write-through strategy)**, reducing database read latency by **45%** and sustaining 2,500+ peak concurrent client connections with stable memory consumption.
- Optimized **PostgreSQL** relational schemas through B-tree composite indexing, HikariCP connection pooling, and query refactoring, improving complex join query execution times by **35%**.

EDUCATION

Dayananda Sagar Academy of Technology and Management

Dec. 2021 – May 2025

Bachelor of Engineering in Information Science (CGPA: 8.4)

Bengaluru, India

SKILLS

Languages : Java (8/17/21), Python, SQL, PL/SQL, TypeScript, C++, JavaScript, Bash

Backend & Distributed : Spring Boot, Spring AI, Spring Security, Hibernate, Apache Kafka, Temporal, Microservices, RESTful APIs, gRPC, Project Loom

AI & ML Engineering : LangGraph, LangChain, LangSmith, Arize Phoenix, TypeSafe Jev, RAG, pgvector, MCP

Data & Databases : PostgreSQL, Oracle DB, Redis, Neo4j, MongoDB, Elasticsearch, Apache Flink

Frontend : Oracle JET (OJET), React, Web Components, MVVM, WebSockets