Anirudh Hosur

He/Him/His

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LinkedIn | GitHub
Portfolio | YouTube

PROFESSIONAL SUMMARY

Senior AWS Developer with 4+ years of experience designing and implementing data-intensive, cloud-native applications using Java/Spring, Kafka, and AWS. I have built event-driven ingestion pipelines, real-time treatment workflows with Step Functions and Lambda, and microservices deployed on OpenShift and AWS, backed by relational databases and robust SQL. I enjoy owning backend platforms end-to-end — from schema and API design to observability and deployment — and I'm growing toward a senior role focused on scalable data architectures and distributed systems.

AREAS OF EXPERTISE

Languages	Java, Python, TypeScript, JavaScript, SQL, C, C++
Backend	Spring Boot, Spring MVC, Spring Data, Spring Batch, Node.js, Nest.js, FastAPI, REST APIs, Microservices
Cloud & Data	AWS (Lambda, Step Functions, S3, API Gateway, ECS/Fargate, Aurora PostgreSQL, SNS/SQS, CloudWatch), OpenShift, Databricks, Redshift
Streaming & MQ	Apache Kafka, AWS SNS/SQS, event-driven architectures, ETL-style ingestion pipelines
Databases	PostgreSQL, Aurora, OracleDB, MySQL, Redis, schema design, complex SQL, performance tuning
DevOps	Docker, Kubernetes/OpenShift, AWS CDK, GitHub Actions, GitLab CI, Jenkins, Maven, SonarCloud
Practices	System Design, OOP, Design Patterns, TDD, Code Review, CI/CD, Production Monitoring (Splunk, Grafana), Agile/Scrum

RELEVANT EXPERIENCE

Software Developer | Java, Spring Boot, Nest.js, AWS, Kafka, PostgreSQL   **Oct 2024 — Present**
IBM Canada *(full-time)*   Calgary, Alberta

- **T-Mobile — Geofencing & Data Treatment Platform (major US telecom)**
  - Implemented a Kafka consumer microservice using Nest.js to ingest ETL-processed geofence events from Databricks/Redshift and persist them into AWS Aurora PostgreSQL, including schema design and validation for high-volume data feeds.
  - Designed and developed AWS Step Functions workflows and Lambda functions to orchestrate Wi-Fi geofence violation treatment flows, integrating with third-party APIs, AWS Secrets Manager, CloudWatch logs, and downstream systems for near real-time enforcement.
  - Partnered with QA and performance teams to support regression and load testing, built structured Kafka test-data scripts, and participated in multiple late-night and weekend production deployments to stabilize the platform and meet client deadlines.
  - Produced daily monitoring digest reports by correlating Splunk logs, CloudWatch metrics, and database queries, giving business stakeholders end-to-end visibility into customer journeys and enabling faster issue triage.
- **Thomson Reuters — AI-driven Tax Evaluation Platform**
  - Worked on a backend evaluation system that compares gold-standard tax returns with AI-generated evaluation returns across multiple workflows (seed, user, comparison).
  - Extended FastAPI services and data models to migrate personal-information flows from a flat V1 schema to a V2 component-based design, improving data integrity and reducing downstream defects.
  - Implemented capture and persistence of GoSystem Tax (GST) trace errors into PostgreSQL so data analysts can investigate failure patterns via Datadog, and enhanced comparison logic with fuzzy matching to reduce noisy diffs while preserving real issues.

AI Engineer | Python, GCP, Vertex AI, Firestore, Cloud Run   **Aug 2024 — Nov 2024**
Credwise Financial Inc. *(Freelance)*   Calgary, Canada

- Designed an end-to-end data and AI pipeline connecting Firestore credit-card data with Vertex AI Gemini and Matching Engine to support semantic search over rewards and benefits.
- Built Python services and Cloud Functions to generate embeddings, store vectors, and serve low-latency queries via Cloud Run, applying RAG-style retrieval on top of structured financial data.
- Migrated from VM + Cloud SQL to a serverless architecture (Cloud Run + Firestore), reducing infrastructure costs by over 90% and establishing CI/CD with Cloud Build and GitHub Actions.

Founding Software Developer | React Native, TypeScript, Firebase, Google Maps APIs   **Mar 2024 — Jul 2024**
Anyone Can Cook *(Self-Employed)*   Calgary, Canada

- Built a multi-role food delivery platform (customers, drivers, home-owners) using React Native and Firebase, including authentication, order flows, and real-time location updates via Google Maps APIs.
- Configured CI/CD with GitHub Actions and Expo EAS builds, and used web demos (Vercel) to collect feedback and iteratively improve UX and reliability.

Cloud Developer Intern | Java, Spring Boot, Vue.js, TypeScript, PostgreSQL   **Aug 2023 — Dec 2023**
CloudOps Inc. *(Internship)*   Montreal, Canada (Remote)

- Developed Spring Boot services and Vue.js components for a CloudStack-based cloud management platform, consolidating VM creation workflows and improving operator productivity.
- Designed and executed Flyway database migrations and optimized PostgreSQL queries for reporting and capacity planning.
- Contributed to Jenkins-based CI pipelines with Maven builds, Spock/Groovy tests, and SonarCloud quality gates to maintain high code quality.

Associate Consultant | Java, Spring Boot, JUnit, OracleDB, Redis, OpenShift   **Aug 2021 — Aug 2022**
Oracle Financial Services Software *(full-time)*   Bengaluru, India

- Built and enhanced Java/Spring Boot microservices for Citibank's customer screening platform, generating Excel-based risk and fraud reports to support US compliance requirements.
- Designed and tuned complex SQL queries, stored procedures, and OracleDB schemas; improved performance with Redis caching and implemented bean validations and 100% JUnit coverage for critical services.
- Deployed and monitored services on Red Hat OpenShift, collaborating with cross-functional teams to troubleshoot production issues and maintain SLAs.

PROJECTS

Serverless Multiplayer Quiz App — Event-Driven on AWS AWS Lambda, API Gateway, DynamoDB, SNS/SQS, React
- Led development of a multi-player quiz application built on a microservices-style, event-driven architecture using AWS Lambda behind API Gateway, DynamoDB for storage, and SNS/SQS for notifications (game events, leaderboard updates).
- Implemented CI/CD using GitHub and GCP Artifact Registry for the frontend and instrumented CloudWatch metrics and logs for health monitoring and debugging.

Infrastructure-as-Code Task Manager AWS, CloudFormation, Lambda, API Gateway, Cognito, SNS, React
- Developed a task management application with Python-based Lambda APIs routed via API Gateway, Cognito-authenticated users, and SNS email notifications, all provisioned via CloudFormation templates.
- Documented the end-to-end architecture and deployment pipeline in a YouTube series focused on CI/CD and infrastructure-as-code patterns on AWS.

Course Management Application Java, Spring Boot, JUnit, PostgreSQL, JavaScript
- Built a web-based course management system with Spring Boot backend (controller/service/repository layers) and PostgreSQL, supporting multi-role access (students, professors, admin).
- Implemented JUnit tests, validations, exception handling, and Swagger API documentation to ensure maintainable, production-ready backend services.

RECOGNITION

IBM Consulting — Growth Award 2025 (T-Mobile Geofencing Project)
Received a $1,000 Growth Award and multiple BluePoints recognitions for exceptional contributions to the T-Mobile Geofencing platform, including overtime support during critical deployment windows, cross-team collaboration, and measurable impact on incremental revenue and client satisfaction.

CERTIFICATIONS

AWS Certified Developer Associate	**In Progress**
AWS Certified Cloud Practitioner (CLF-C01)	**May 2023 – May 2026**
Oracle Java, OracleDB, and Linux Certifications	**Oct 2021 – Oct 2024**

EDUCATION

Dalhousie University | Masters in Applied Computer Science   **September 2022 — January 2024**
Vellore Institute of Technology | Bachelor of Technology in Computer Engineering   **August 2017 — May 2021**