

PROFESSIONAL SUMMARY

Software engineer with 2+ years of full stack development at Oracle - back-end services in Python and Java, front-ends in JavaScript/TypeScript, React, HTML, and CSS. Ships event-driven microservices on Kafka, REST APIs, Oracle DB/PostgreSQL, Docker, and Kubernetes with Prometheus observability and CI/CD. Google Summer of Code 2026 contributor to Kubeflow (CNCF); strong data structures, algorithms, and system design fundamentals, 600+ problems solved.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Bash
Back-End: REST API design, FastAPI, Node.js, Express.js, Apache Kafka, microservices, WebSockets, Oracle ADF (Java), concurrency
Front-End: React, Next.js, TypeScript, HTML5, CSS3, Tailwind CSS, ShadCN, ReactFlow, Oracle JET, accessible responsive UI
Databases: PostgreSQL, Oracle Database, MySQL, Elasticsearch, Prisma ORM, Supabase, Firebase
Cloud, DevOps & Testing: Docker, Kubernetes, Helm, Istio, OCI/OKE, GitHub Actions, CI/CD, Prometheus, pytest, unit/integration testing
Fundamentals: Data Structures, Algorithms, OOP, System Design, Distributed Systems, Agile; LangChain, LangGraph, RAG, MCP

PROFESSIONAL EXPERIENCE

Software Engineer

Jun 2024 - Present

Oracle

Bengaluru, India

- Designed and built an event-driven Alert Notification microservice (Python, FastAPI, Apache Kafka, Oracle DB, Docker, Kubernetes/Helm): an HTTP API durably enqueues alerts onto a replicated Kafka topic and a consumer group delivers them with at-least-once semantics, bounded retries, and a dead-letter queue.
- Made retries safe with idempotency keys plus a transactional outbox, and replaced a hand-rolled DB row-leasing queue with Kafka consumer groups and partition rebalancing, deleting lease/heartbeat/fencing code while gaining automatic worker failover.
- Instrumented the ingest, produce, and delivery paths with Prometheus metrics (consumer lag, DLQ depth) and routed operational alerts via Alertmanager to Slack for on-call triage.
- Delivered full stack features across 3 customer-facing Fusion SCM workflows - Java/Python service logic, REST APIs, SQL data access, and JavaScript/TypeScript UI, from design review to deployment.
- Built an order-classification service on Oracle ESS batch scheduling with rule guardrails, exception routing, and human-review handoff, processing 10K+ order lines per run, plus a part-matching pipeline that lifted coverage ~30%.
- Reviewed peer code against style and testability guidelines, authored developer documentation, and triaged/debugged production defects across service, database, and UI layers.

Open Source Contributor - Kubeflow (CNCF)

May 2026 - Present

Google Summer of Code 2026

Remote

- Selected for GSoC 2026 to evolve kubeflow/docs-agent into a multi-source retrieval service; landed a 5.4K-line merged pull request adding a three-tool MCP server, embedding service, and two ingestion pipelines, reviewed by upstream maintainers.
- Built multi-index retrieval over GitHub issues, source code, Kubernetes manifests, and 1K+ Markdown pages - 10K+ indexed chunks with path, product-area, and version metadata for filtered lookup.
- Wrote a 71-test suite and GitHub Actions CI workflow so ranking regressions fail the build; shipped CI/CD to Kubernetes (OCI/OKE) with Helm charts, Istio config, and edge rate limiting, CORS, and JWT auth.
- Review contributor pull requests and host the project's bi-weekly community call for new contributors.

Software Engineer Intern - Application Developer

May 2023 - Jul 2023

Oracle

Hyderabad, India

- Implemented Copy Data for lead-time columns in Oracle SCM across back-end service logic and UI, optimizing read/write paths with Elasticsearch queries and PATCH-based REST updates to cut round trips on bulk edits.
- Added linear-regression trend analysis to Oracle JET (JavaScript) charts for supply-chain forecasting views.

PROJECTS

MacBatch - Distributed Batch Compute Scheduler

2026

TypeScript, Python, FastAPI, Node.js CLI, Ollama, Apple Silicon

Source Docs

- Built an open-source distributed job scheduler that fans batch work across a pool of idle machines: a FastAPI control plane models jobs → shards → tasks, and workers acquire 600s leases with automatic reclaim and reassignment on worker failure.
- Designed a pull-based worker protocol so machines behind NAT join with outbound HTTPS only, and published the worker as an npm CLI; benchmarked 252,686 items/hour per node and a 2.8× throughput gain from shard batching alone.

CrackRound - Real-Time Full Stack Interview Platform

2025

Next.js, TypeScript, Node.js, WebSockets, Prisma, PostgreSQL

Website

- Shipped a production full stack web application end to end - React/Next.js front-end, TypeScript API layer, PostgreSQL schema via Prisma, authentication, credit billing, and deployment.
- Engineered a real-time bidirectional WebSocket pipeline (streaming STT → model → streamed audio) at ~1.5s end-to-end latency, with a sandboxed DSA code judge, JSON-schema scoring, and a \$2/session cost ceiling.

EDUCATION

Bachelor of Technology in Mechanical Engineering

2020 - 2024

National Institute of Technology, Warangal

CGPA: 7.34

ACHIEVEMENTS

- Solved 600+ data structures and algorithms problems on LeetCode, GeeksforGeeks, and Codeforces; organized 15+ competitive programming contests.
- Won Oracle Gen AI Hackathon (1st of 33 teams, top 5 of 300+ employees); Runner-up, Tri-NIT Hackathon 2024, Backend track; speaker, Kubeflow Community Showcase 2026.