Omkar Jawalikar

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Work Experience

Anarock **July 2026 – Present**
Software Development Engineer I *Bengaluru, IN*

- Enabled configurable content authoring across 12 field types by connecting React/TypeScript editors, backend validation, PostgreSQL JSONB persistence, and tenant-scoped published APIs.
- Enabled API-driven campus discovery by implementing tenant/building routing, reusable content rendering, dynamic filters, and Android/iOS WebView navigation in React.
- Preserved independent card assignments for duplicate display names by propagating stable identifiers through editor state, validation, and serialization while retaining legacy payload compatibility.
- Validated an AI inspection-summary workflow using 18 released tickets across 9 units in a local browser/provider demo by implementing bounded record selection, source provenance, and authorization controls.
- Established deterministic execution boundaries for an AI assistant by designing typed LangGraph state, capability routing, validation, persistence, and replay-safe recovery around LLM interpretation.

Anarock **December 2025 – June 2026**
Software Engineering Intern *Bengaluru, IN*

- Enabled conversational access to facility discovery, booking, cancellation, rebooking, and dues workflows by building FastAPI services integrated with existing platform APIs.
- Enabled restoration of multi-turn conversation context by implementing LangGraph and LangChain routing with Redis-backed session persistence.
- Kept service and database operations subject to explicit validation by defining typed request and response contracts between conversational interpretation and business execution.

Projects

Saathi: Collaborative Workspace | *Next.js, TypeScript, PostgreSQL, Redis Streams, SSE*

- Enabled authenticated task, membership, and invitation workflows by building a Next.js interface backed by Supabase Auth, PostgreSQL transactions, and server-side workspace permissions.
- Enabled recovery from interrupted real-time connections through cursor-based SSE replay, Redis Streams, event deduplication, and authoritative state reconciliation.
- Protected collaborative task edits against stale updates by combining optimistic UI workflows with server-side authorization and expected-version checks.

AtlasPay: Checkout Reliability Lab | *Go, Kafka, PostgreSQL, Redis, Docker*

- Completed 167/167 checkouts with 520.3 ms p95 completion latency in a recorded local Docker Compose benchmark at a 1,000 RPM arrival target for 10 seconds using Go, Kafka, and PostgreSQL.
- Demonstrated persisted checkout recovery across process restarts by implementing durable saga state and exercising order, payment, and inventory contract smoke tests.
- Added recovery paths for duplicate delivery and partial failures through payment idempotency, bounded retries, inventory compensation, and dead-letter handling.

Technical Skills

Frontend: React, Next.js, JavaScript, TypeScript, HTML, CSS, Tailwind CSS
Languages: Python, Go, Java, C++, SQL
Backend: Node.js, Express, FastAPI, REST APIs, Server-Sent Events
Data and Infrastructure: PostgreSQL, Redis, Kafka, Docker, AWS, GCP
Engineering: Git, GitHub Actions, Automated Testing, API Contracts, Multi-tenant Authorization
AI Systems: LangGraph, LangChain, Structured Outputs, Tool Integration

Education

Vellore Institute of Technology, Vellore, IN **July 2026**
Bachelor of Technology in Computer Science and Engineering ***CGPA: 8.33***

Certifications & Training

Google Cloud Certified Generative AI Leader

Oracle Cloud Infrastructure Generative AI Professional

NVIDIA AI for All: From Basics to GenAI Practice

IBM Generative AI and LLMs: Architecture and Data Preparation