

Rajat Savdekar

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Work Authorization: F-1 OPT (STEM eligible to May 2029) • Authorized to work in the US • H-1B sponsorship will be required

EDUCATION

University of Southern California

Master of Science in Computer Science (GPA: 3.63/4.0)

Los Angeles, CA

Aug 2024 – May 2026

University of Mumbai

Bachelor of Engineering in Computer Engineering (CGPA: 9.4/10)

Mumbai, India

Aug 2019 – May 2023

SKILLS

Languages: Python, TypeScript, JavaScript, C++, C#, Java, SQL

Frameworks & Libraries: React, Next.js, FastAPI, Flask, Node.js, Tailwind CSS

Cloud & DevOps: AWS (EC2, S3, CloudWatch), Docker, Terraform, GitHub Actions, CI/CD

Databases: PostgreSQL, MySQL, MongoDB, Redis, ChromaDB

AI / ML: OpenAI APIs, LangGraph, LLM Tool Calling, RAG, Vector Embeddings, 4-bit AWQ Quantization

EXPERIENCE

Easley-Dunn Productions, Inc.

Torrance, CA

Software Developer

Aug 2026 – Present

- Cut replay pipeline latency from 22 minutes to 15 seconds with an asynchronous **FastAPI** job runner and Django REST endpoints, using **React** state hooks to memoize event state and stream telemetry.
- Built full-stack telemetry workflows pairing FastAPI and Django REST endpoints with React interfaces, streaming real-time simulation data into memoized frontend state.

Jalgaon Fruit Sales Cooperative Ltd (JFSS) – AgriTech Supply Chain ERP

Jalgaon, India

Software Engineer II

May 2023 – May 2024

- Doubled peak harvest write throughput by decomposing a legacy PHP monolith into **Python Flask** microservices on **PostgreSQL**, eliminating MyISAM table locks and cutting query latency 40%.
- Architected a semantic vector search service over 150K+ procurement records using **ChromaDB** and **OpenAI embeddings**, cutting average document retrieval latency from 3 minutes to under 20 seconds.
- Deployed containerized services with **Docker** to **AWS EC2** via GitHub Actions CI/CD pipelines monitored with CloudWatch alerts.
- Demoed features to end users and presented data-backed trade-offs to stakeholders, driving UI adoption.
- Engineered an async reconciliation pipeline for 1,000+ daily invoices using **Redis queues** with exponential retry backoff.

Software Engineer I

Jan 2022 – May 2023

- Built a UI with **HTML**, **CSS**, and **JavaScript** to digitize the workflow of logging information to the backend, streamlining data entry for operations teams.
- Built distributed batch reconciliation workers in Python with Celery, Redis, and cron to parse multi-bank statement streams, executing double-entry ledger settlement against internal journal entries to eliminate reconciliation drift.

Softaid Computers

Jalgaon, India

Software Engineering Intern

Jul 2021 – Dec 2021

- Automated shift scheduling and multi-branch ledger aggregation by developing **RESTful** services in JavaScript and **MySQL** for the **E-Attendance** and **E-Vikas** modules on **GCP** and **Azure**, cutting administrative reporting lag by 65%.

PROJECTS

MockPad – Real-Time Collaborative Code Editor

[\[Live\]](#) [\[GitHub\]](#)

TypeScript, React, Yjs, WebSockets, LevelDB, WebRTC

May 2026

- Scaled collaborative editing to 10–20 DAU on a \$6/month server using Node.js and WebSockets at 100% uptime.
- Shipped an interview UI with deterministic session playback (React/TypeScript) for 10-20 daily users at 100

MARA – Multi-Agent Research Intelligence Platform

[\[GitHub\]](#)

Python, LangGraph, FastAPI, ChromaDB, Docker, WebSockets

Sep 2026

- Built a LangGraph multi-agent research engine with tool calling and live WebSocket execution traces.
- Grounded agent outputs with RAG over ChromaDB and OpenAI embeddings, eliminating hallucinations.
- Ran deep research with agent tool calling across Claude (Anthropic) and Gemini via MCP-connected external sources.

Pulse – Real-Time Event Streaming Platform

[\[GitHub\]](#)

Go, Kafka, GraphQL, gRPC, PostgreSQL, Redis, Kubernetes, Docker, CI/CD

Oct 2026

- Built a **Go** event-streaming platform: **Gin** ingest API dedups via Redis into **Kafka** streams consumed by internal **gRPC** services.
- Exposed a GraphQL API (gqlgen) with Redis caching and PostgreSQL persistence on Kubernetes with HPA autoscaling.