

LOUKIK NAIK

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Education

University of California, San Diego

Master of Science (MS) in Computer Science (GPA: 3.97/4.0)

California, USA

December 2024

University of Mumbai

Bachelor of Engineering in Computer Engineering (GPA: 9.71/10.0)

Mumbai, India

May 2023

Work Experience

Software Engineer

Eudia (Legal AI Startup, Series A)

Palo Alto, CA

August 2025 – Mar 2026

- Owned the **Mergers and Acquisitions backend service** end-to-end, building the core infrastructure powering an **agent-based AI system** for large-scale legal document analysis in production.
- Designed and implemented backend APIs acting as the **control plane for AI agent workflows**, managing document ingestion, execution orchestration, and retrieval of structured outputs.
- Re-architected agent orchestration by migrating workflows from **Airflow** to **Temporal**, enabling reliable execution of long-running distributed jobs with retries, idempotency, and deterministic execution.
- Built backend capabilities for multiple **AI agents** including document analysis, configurable **PII redaction**, contract comparison, and tabular review with **schema-based inference** and cell-level operations.
- Designed workflows coordinating multiple **services, queues, and workers**, resolving production issues such as duplicate execution, inconsistent retry state, and downstream dependency failures.
- Designed and maintained **Postgres schemas** and database migrations using **Alembic**, enabling backward-compatible schema evolution for new agent capabilities.
- Built observability into distributed workflows using **structured logging, telemetry, and tracing**, improving reliability and debugging of production pipelines.

Machine Learning Engineer

Plainsight Technologies (B2B Computer Vision Startup, Seed Round)

San Francisco, USA

January 2025 - August 2025

- Built and deployed real-time image segmentation APIs for SAM and MobileSAM using **FastAPI**, with Dockerized model serving and automated infrastructure provisioning via **Terraform** and CI/CD.
- Built scalable model serving infrastructure using **Docker**-based deployments and automated **CI/CD pipelines**, improving reliability and reproducibility of production ML services.
- Created a **cron-triggered retraining pipeline** that detects newly labeled data and launches **Vertex AI** training jobs, enabling continuous model updates.
- Designed an **OCR model evaluation framework** utilizing **edit distance, confidence scoring, and text similarity** metrics to automate quality checks pre-deployment.
- Designed and implemented a robust **integration testing framework** to validate end-to-end performance of the model generation pipelines for **segmentation, object and keypoint detection** tasks.

MLE Intern

Plainsight Technologies

San Diego, USA

June 2024 - December 2024

- Built event-driven video inference pipelines using **Google Cloud Functions** triggered by **GCS uploads**.
- Deployed ML processing pipelines on **Google Kubernetes Engine (GKE)** with CI/CD to support scalable and reliable video processing workloads.

Project

Surfstore: A Distributed File Storage System | Software Development, Computer Networks

- Built a **horizontally scalable distributed file storage system** in **Go** with separate block and metadata servers.
- Designed a **gRPC-based client-server architecture** enabling efficient communication between distributed nodes.
- Implemented the **Raft consensus algorithm** to ensure metadata consistency and fault tolerance across storage servers.

Technical Skills

Software Engineering & Systems: Python, C++ (STL), JavaScript, SQL, Bash, HTML/CSS; Data Structures, OOP, System Design, Distributed Systems, Cloud Computing, Design Patterns; FastAPI, Git

Machine Learning & Infrastructure: LLMs, NLP; PyTorch, TensorFlow, Pandas, Scikit-Learn, LangGraph, LangChain, TTS; Kubernetes, Docker, Kubeflow, Temporal, CI/CD Pipelines, Grafana, Prometheus, Signoz, ArgoCD