Ghritachi Mahajani

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EDUCATION

Master of Science, Computer Science, *University of Colorado, Boulder* |**GPA 4.0**   May, 2025
Courses: Distributed Systems, Data Center Scale Computing, Introduction to Blockchain
Bachelor of Technology, Computer Science and Engineering, *SRM University* |**CGPA 9.45/10**   May, 2019

WORK EXPERIENCE

AI Engineer Intern   September, 2025 – Present
Tijarat Sales LLC   Remote, US
- Designed, developed, and deployed a FastAPI LLM service using Gemini and OpenAI SDKs **in Azure Cloud** with **CI/CD**.
- Architected an **AI Pipeline** using vendor-agnostic LLM layer (Gemini/OpenAI/Azure) with **structured outputs**, web-search tooling, explicit **prompt caching**, and parallel two-phase **batching** to cut latency and cost.

Web Developer (Part-Time)   Feb, 2024 – May, 2025
RECUV Lab, CU Boulder   Boulder, CO
- Built and maintained a React/NodeJS/TypeScript web application for SAFARI autonomous drone research, **collaborating** with researchers and users for **iterative feedback**.
- Engineered **15+** features with robust **state management** with **Zustand** to coordinate **real-time** telemetry, **Leaflet** maps, and researcher inputs, enabling **advanced features like undo/redo** and reducing state-related debugging issues.

System Engineer   July, 2019 – August, 2023
Tata Consultancy Services   Delhi, India
- Migrated **Malaysia Airline's** high-availability customer loyalty web platform with **3M+** yearly users to Adobe Experience Manager CMS as part of a cross-functional team, achieving 100% client satisfaction in 2 consecutive quarterly reviews.
- Built and deployed a **production mobile app** feature end-to-end, managing **client requirements, infrastructure access, and production release**.
- Optimized frontend rendering using **virtualization, memoized** components**,** and **lazy loading**, reducing initial load time from ~3s to under **1.8s (~40%),** improving responsiveness in high-data scenarios.
- Drove deliverables in an **agile** team, proactively communicating with clients to resolve blockers and hone features.

PROJECTS

Data Visualization Tool | Link   2025
- Designed and implemented a full-stack CRM analytics dashboard with **Next.js (frontend), FastAPI + SQLAlchemy (backend), and Postgres (database),** containerized via **Docker Compose,** from API design to UI visualization.
- **Gained hands-on experience in modern full-stack practices**, including API integration, database modeling, KPI aggregation, and frontend data visualization, while learning how to structure, deploy, and orchestrate services.

AI Integrated Log Analysis Application (University Course Final Project) | Link   2024
- Deployed a distributed **containerized** microservices-based application on **Google Cloud Computing** that takes log files asynchronously and stores them along with **AI-generated** analysis of the logs, with authenticated user access.
- Implemented the cloud infrastructure using Elasticsearch and Logstash for log storage, **Redis** as message queue, Flask for **REST**, **AWS S3** for storing files, **Llama 3** Large Language Model for generating AI insight and Kibana for visualization.

SKILLS

Frontend	: React, TypeScript, JavaScript, Vue.js, Redux, Tailwind CSS, HTML/Pug, Responsive Web.
Backend	: Python, Node.js, FastAPI, Django, Next.js, Flask, REST APIs, Redis, PostgreSQL, gRPC.
Cloud & DevOps	: Google Cloud (GCP), Docker, Kubernetes, Git, CI/CD.
Machine Learning & AI	: OpenAI, LangChain, GenAI, Deep Learning, MLFlow, Scikit-Learn, Numpy, PyTorch.

CO-CURRICULARS

DeepLearning.AI Deep Learning Specialization Certificate: CNNs, Sequence Models, Model Optimization**. Link**   2025
IBM Full Stack Software Developer Professional Certificate: Docker**,** Kubernetes, cloud, CI/CD. **Link**   2023