

AMIT MITTAL

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EDUCATION

California State University Fullerton

Master of Science in Computer Science

Fullerton, CA

Jan 2024 - Dec 2025

Rajiv Gandhi Proudlyogiki Vishwavidyalaya

Bachelor of Science in Computer Science

Bhopal, India

2013 - 2017

EXPERIENCE

IBM LABS

Bengaluru, India

Staff Engineer

Sept 2022 - Jan 2024

- Implemented IBM's Secret Manager on IaaS with SOC2 encryption, eliminating HSMs **saving \$3 Million**.
- Integrated IBM IAM (Blue Groups) with OpenID Connect for automated user permission management, reducing manual intervention and **cutting ticket turnaround time by 90%**.
- Integrated change data capture enabling metadata transfer for data centers, **automating updates to SSOT and ServiceNow**

E.S.R.I. Inc.

Redlands, CA

Software Development Intern

May 2025 - Aug 2025

- Automated end-to-end deployment pipeline for ArcGIS Enterprise stacked on a Windows machine on Jenkins, **saving 10 hours**.
- Designed an issue management system to track and optimize the workflow of each user and **increase efficiency by 50%**.

Axiom IO

Hyderabad, India

Full-Stack Developer

Jun 2021 - Aug 2022

- Orchestrated deployment pipelines. Moving entire deployment on kubernetes and eliminating **downtime to 0 seconds**
- Designed a Sports Aggregator Platform and Game Aggregator Platform with major game providers (Ezugi, DreamCasino, SuperSpade), efficiently managing **~14M weekly sports** feed requests with layered services reducing response time by 30%.

Kuliza Technologies

Bengaluru, India

Software Developer

Dec 2018 - Jun 2021

- Led Educational Loan project, designing key modules and managing a team of four, and improving process **efficiency by 30%**.
- Implemented LDAP-based authentication, and maintained Celery queues for asynchronous processing, enhancing reliability.
- Created a Major module named eMandate removing manual EMI collection system entirely, **Saving \$500K**.

ASSISTANTSHIP

Teaching Associate, CSU Fullerton - Python Programming

Aug 2024 - Feb 2025

Research Assistant, CSU, Fullerton - Disaster Management

Mar 2024 - May 2025

SKILLS

Languages: Python, Golang, Java, JavaScript, TypeScript, Bash, HTML, CSS, SQL

Frameworks & Libraries: Django, Flask, Spring Boot, Go Fiber, FastAPI, React, Vite, TensorFlow, PyTorch, Celery

Databases & Storage: PostgreSQL, MongoDB, EDB Postgres, Redis, MySQL, Debezium

Cloud Platforms & Services: AWS, IBM Cloud, ArcGIS Enterprise, Azure (familiar), Google Cloud Platform (familiar)

DevOps & Automation: Docker, Kubernetes, Helm, Ansible, Amazon CodePipeline, MLOps (MLflow, Kubeflow)

CI/CD & Monitoring: Jenkins, GitLab CI/CD, Prometheus, Grafana, ELK Stack (Monitoring, Observability, Logging)

System Administration & Tools: Linux, Windows Server, IIS, LDAP, ServiceNow, Git, Swagger/OpenAPI, Kafka

AI & ML Systems: LLMs, NLP, Hugging Face Transformers, DeepSeek, Llama (Ollama), Model Deployment & Inference, LangChain

Agentic Systems: Agentic AI, OpenHands, RAG (Retrieval-Augmented Generation), MCP (Model Context Protocol)

PROJECTS

Multi-Layered Agentic AI Systems for Autonomous Work Orchestration (OpenAI) + FastAPI

- Achieved ~60% reduction in project planning time and ~40% improvement in execution consistency through a hierarchical agentic architecture orchestrating 3+ LLMs.

URL Shortener using Model Context Protocol (MCP) + Python

- Designed the system with scalable FastMCP tools and clean HTTP routing deployed on Kubernetes on MicroK8s.

Agentic AI Workflow Automation with OpenHands and Kubernetes

- Orchestrated an agentic AI workflow integrating OpenHands with Llama 3.2 and Kubernetes for automated task execution.

JSON to TOON Converter | Full-Stack Data Format Optimization Tool

- Built a full-stack JSON to TOON conversion platform achieving **~40% payload size reduction**, exposing REST APIs and a web UI.