

# AMIT MITTAL

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## EDUCATION

<b>California State University Fullerton</b>	<b>Fullerton, CA</b>
Master of Science in Computer Science	Jan 2024 - Dec 2025
<b>Rajiv Gandhi Proudyogiki Vishwavidyalaya</b>	<b>Bhopal, India</b>
Bachelor of Science in Computer Science	2013 - 2017

## EXPERIENCE

<b>IBM LABS</b>	<b>Bengaluru, India</b>
Staff Engineer	Sept 2022 - Jan 2024
<ul style="list-style-type: none"><li>Implemented IBM's Secret Manager on IaaS with SOC2 encryption, eliminating HSMs <b>saving \$3 Million</b>.</li><li>Integrated IBM IAM (Blue Groups) with OpenID Connect for automated user permission management, reducing manual intervention and <b>cutting ticket turnaround time by 90%</b>.</li><li>Integrated change data capture enabling metadata transfer for data centers, <b>automating updates to SSOT and ServiceNow</b></li></ul>	
<b>E.S.R.I. Inc.</b>	<b>Redlands, CA</b>
Software Development Intern	May 2025 - Aug 2025
<ul style="list-style-type: none"><li>Automated end-to-end deployment pipeline for ArcGIS Enterprise stacked on a Windows machine on Jenkins, <b>saving 10 hours</b>.</li><li>Designed an issue management system to track and optimize the workflow of each user and <b>increase efficiency by 50%</b>.</li></ul>	
<b>Axiom IO</b>	<b>Hyderabad, India</b>
Full-Stack Developer	Jun 2021 - Aug 2022
<ul style="list-style-type: none"><li>Orchestrated deployment pipelines. Moving entire deployment on kubernetes and eliminating <b>downtime to 0 seconds</b></li><li>Designed a Sports Aggregator Platform and Game Aggregator Platform with major game providers (Ezugi, DreamCasino, SuperSpade), efficiently managing <b>~14M weekly sports</b> feed requests with layered services reducing response time by 30%.</li></ul>	
<b>Kuliza Technologies</b>	<b>Bengaluru, India</b>
Software Developer	Dec 2018 - Jun 2021
<ul style="list-style-type: none"><li>Led Educational Loan project, designing key modules and managing a team of four, and improving process <b>efficiency by 30%</b>.</li><li>Implemented LDAP-based authentication, and maintained Celery queues for asynchronous processing, enhancing reliability.</li><li>Created a Major module named eMandate removing manual EMI collection system entirely, <b>Saving \$500K</b>.</li></ul>	

## ASSISTANTSHIP

Teaching Associate, CSU Fullerton - Python Programming	Aug 2024 - Feb 2025
Research Assistant, CSU, Fullerton - Disaster Management	Mar 2024 - May 2025

## SKILLS

<b>Languages:</b> Python, Golang, Java, JavaScript, TypeScript, Bash, HTML, CSS, SQL
<b>Frameworks &amp; Libraries:</b> Django, Flask, Spring Boot, Go Fiber, FastAPI, React, Vite, TensorFlow, PyTorch, Celery
<b>Databases &amp; Storage:</b> PostgreSQL, MongoDB, EDB Postgres, Redis, MySQL, Debezium
<b>Cloud Platforms &amp; Services:</b> AWS, IBM Cloud, ArcGIS Enterprise, Azure (familiar), Google Cloud Platform (familiar)
<b>DevOps &amp; Automation:</b> Docker, Kubernetes, Helm, Ansible, Amazon CodePipeline, MLOps (MLflow, Kubeflow)
<b>CI/CD &amp; Monitoring:</b> Jenkins, GitLab CI/CD, Prometheus, Grafana, ELK Stack (Monitoring, Observability, Logging)
<b>System Administration &amp; Tools:</b> Linux, Windows Server, IIS, LDAP, ServiceNow, Git, Swagger/OpenAPI, Kafka
<b>AI &amp; ML Systems:</b> LLMs, NLP, Hugging Face Transformers, DeepSeek, Llama (Ollama), Model Deployment & Inference, LangChain
<b>Agentic Systems:</b> Agentic AI, OpenHands, RAG (Retrieval-Augmented Generation), MCP (Model Context Protocol)

## PROJECTS

<b>Multi-Layered Agentic AI Systems for Autonomous Work Orchestration (OpenAI) + FastAPI</b>
<ul style="list-style-type: none"><li>Achieved ~60% reduction in project planning time and ~40% improvement in execution consistency through a hierarchical agentic architecture orchestrating 3+ LLMs.</li></ul>
<b>URL Shortener using Model Context Protocol (MCP) + Python</b>
<ul style="list-style-type: none"><li>Designed the system with scalable FastMCP tools and clean HTTP routing deployed on Kubernetes on MicroK8s.</li></ul>
<b>Agentic AI Workflow Automation with OpenHands and Kubernetes</b>
<ul style="list-style-type: none"><li>Orchestrated an agentic AI workflow integrating OpenHands with Llama 3.2 and Kubernetes for automated task execution.</li></ul>
<b>JSON to TOON Converter   Full-Stack Data Format Optimization Tool</b>
<ul style="list-style-type: none"><li>Built a full-stack JSON to TOON conversion platform achieving <b>~40% payload size reduction</b>, exposing REST APIs and a web UI.</li></ul>