

# Sarthak Sethi

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## Education

### San Jose State University

Expected Graduation: Dec 2026

Bachelor's of Science in Computer Science and Applied Math

Awards: Dean's Scholar (2x) & 4x Hackathon Winner — Course Work: DSA, Databases, Machine Learning, OOP

## Skills

**Languages** Python, Java, Typescript, JavaScript, C#

**Frontend** React, Next.js, JavaScript, HTML/CSS

**Backend** Springboot, Django, Flask, .NET, NGINX

**Databases** SQL(PostgreSQL, Oracle), NoSQL(MongoDB)

**GenAI** LLMs, Agentic AI, Fine-tuning (LoRA)

**GenAI Infra** RAG, MCP, Vector databases

**Cloud** AWS (Lambda, EC2, S3), Kubernetes, Docker

**DevOps/Tools** CI/CD, Git, Postman, Jira, Agile

## Experience

### Incoming - Software Engineering Intern

Sep 2025 – Dec 2025

Lighthouse Observatory (Y-Combinator 2025)

Remote

### Software Engineering Intern

May 2025 – Aug 2025

Gilead Sciences

Foster City, CA

- Led end-to-end build of a Model Context Protocol (MCP), AI agent bot on an in-house fine-tuned LLM with secure intranet integration that surfaces real-time Identity and Access Management (IAM) status via chat and daily alerts, cutting manual access tickets 37%.
- Built and deployed a Python security automation suite using Selenium, Django, and unittest to test file uploads and enforce CI gates, blocking 15+ high-risk defects before release.
- Shipped an analytics platform by migrating 20,000+ legacy records into Oracle with Python ETL, exposing a secure REST API, and delivering Power BI dashboards with row-level security and scheduled refresh, cutting reporting cycle time 60%.

### Data Engineering Intern

Jan 2025 – Mar 2025

Cequence Security

Santa Clara, CA

- Built a Python and SQL REST-traffic analytics pipeline with 1h, 24h, etc. windowed aggregations and alerting to track per-endpoint volume, errors, and latency, improving system efficiency 15%.
- Integrated Open Policy Agent (OPA) with Nginx using Rego policy-as-code to enforce API access control and request validation, keeping P99 gateway overhead under 5 ms.
- Built a Python solution integrated into CI/CD to analyze REST API request behavior and auto-flag anomalies, reducing mean time to detection by 45%.

### Machine Learning Research Assistant

Jan 2025 – Present

MICoSys Lab @SJSU

San Jose, CA

- Researching adversarial machine learning on LLMs, under the guidance of Dr. Sengupta, designing and executing prompt-based jailbreak evaluations pre- and post-fine-tuning to assess model robustness and alignment.
- Fine-tuned small-scale LLaMA models using LoRA (Low-Rank Adaptation) adapters on novel datasets, improving performance and analyzing generalization across unseen tasks.
- Explored unlearning techniques by programmatically removing and modifying LoRA adapters; decomposed delta weights to identify and interpret shifts in model behavior and learned representations.

## Projects

### Co-Founder - Machine Learning Based Smart Data Analyst and Visualization SaaS

Github Link

- Built and own full-stack AI analytics SaaS (LangChain, React, Supabase, AWS) for CSV queries, SQL generation, and instant visual/statistical insights
- Architected scalable cloud deployment supporting high concurrency, secure data handling, and sub-second queries

### RAG/MCP Based Government Chat-bot — 1st Place Winner at Microsoft Azure Hackathon

Link

- Location-aware Model Context Protocol with integrated government form autofill and Retrieval-Augmented Generation (RAG) pipeline