

SARTHAK SETHI

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EDUCATION

San Jose State University

Bachelor's of Science in Applied Math and Computer Science

Expected Graduation: May 2026

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript (React/Next), HTML5/CSS
Databases: Vector Databases (Pinecone, Qdrant), NoSQL (MongoDB), SQL (PostgreSQL, SQLite)
Developer Tools: Jira, Flask, Docker, Git, AWS (Lambda, EC2, S3), Kubernetes, Excel

WORK EXPERIENCE

Incoming - Data Automation & Machine Learning Intern

May 2025 - Aug 2025

Gilead Sciences

Foster City, CA

- Incoming Machine Learning and Data Automation intern in Regulatory Operations for Summer 2025

Machine Learning Research Assistant

Feb. 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.

Software Engineering Intern

Jan. 2025 - March 2025

Cequence Security

Santa Clara, CA

- Leveraged Helm charts on Cequence Security's Sentinel application to analyze API requests within specified timeframes, identifying and monitoring distinct patterns in request metadata, which improved system efficiency by 15% and enhanced request visibility.
- Built a Python-based solution integrated with a CI/CD pipeline to automate analysis of API request behaviors, streamlining anomaly detection and improving operational efficiency, while collaborating with cross-functional teams to refine the security framework.
- Integrated Rego policies in Open Policy Agent (OPA) with Nginx to enforce access control and security policies for Cequence Security's Spartan platform. Automated API request validation and policy enforcement, improving security posture, threat detection, and compliance automation while optimizing system performance.

LEADERSHIP EXPERIENCE

Resident Assistant

July 2024 - Present

- Boosted student engagement and satisfaction by 25%+ as primary liaison for 100+ residents, leveraging 40+ hours of Title IX, mental health, and leadership training to ensure compliance and drive 20% increase in resource utilization.

Machine Learning Dev. Team

March 2025 - Present

Software & Computer Engineering Society

- Leading development of an NLP-powered Discord moderation bot using spaCy, scikit-learn, and transformers, currently achieving 92%+ accuracy in detecting harmful content and automating workflows to reduce manual review time by 70%.

Lead Data Analytics

March 2025 - May 2025

Mozilla Responsible Computing Club

- Built and deployed a full-stack AI scheduling assistant (React, Next.js, LangChain, LLM API) with 95%+ accuracy, while leading a 5-member team to grow membership by 19% through Python, SQL, and EDA-driven outreach and events.

Director of Outreach (Prev. Social Media Chair)

Nov 2023 - Feb 2025

Association for Computing Machinery

- Managed and led a 3-person team to boost event attendance by 40% through targeted outreach, secured sponsorships to enhance quality, and grew membership by 15% while increasing social media engagement by 20%.

PROJECTS

RAG + MCP Based Government Chat-bot | 1st Place Winner at Microsoft Azure Hackathon [Link](#)
Fitness Tracker with AI Pose Estimation | 2nd Place Winners At Silicon Hacks [GitHub Link](#)
Machine Learning based Wildfire Analyzer | 2nd Place Winners At SJHacks [GitHub Link](#)