

SARTHAK SETHI

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EDUCATION

San Jose State University

Bachelor's of Science in Applied Math and Computer Science

Excepted Graduation: May 2026

Key Coursework: Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Computer Architecture, Advance Python

WORK EXPERIENCE

Incoming Machine Learning Research Assistant

MICoSys Lab

January 2025

San Jose, CA

- Machine Intelligence and Complex Systems Research - Spring 2025

Incoming Software Engineering Intern

Cequence Security

January 2025 - March 2025

Santa Clara, CA

- API Security Development and Testing - Spring 2025

Project Lead

HowToHackathon

February 2024 - Present

Dublin, CA

- Directed **15+** **hackathons** with **10,000+** **participants**, awarding \$500,000+ in prizes, and coordinating with 50+ judges from top universities and Fortune 500 companies.
- Increased participant retention by **15% year-over-year** through innovative event engagement strategies, including personalized participant experiences and effective communication channels.
- Partnered with **Wolfram**, **Postman**, and **Desmos**, securing sponsorships and maintaining a newsletter with **100+** **weekly readers** and a **68% engagement rate**.

Director of Outreach

Association for Computing Machinery

December 2023 - Present

San Jose, CA

- Spearheaded outreach initiatives, **increasing event attendance by 40%**, resulting in higher engagement from students, faculty, and industry professionals.
- **Secured sponsorships and collaborations** by building relationships with companies and industry leaders, enhancing event quality, and providing valuable resources to members.
- Managed and executed social media campaigns, **boosting online engagement by 20%**, maintaining a consistent brand identity, and **growing membership by 15%**

PROJECTS

SJFit Python, OpenCV, Computer Vision | 2nd Place Winners At Silicon Hacks

[GitHub Link](#)

Developed an app using **MediaPipe** for pose estimation and **CNNs** for joint angle analysis, achieving **20% improvement** in form detection. Integrated **OpenCV** for real-time feedback and **NumPy** for efficient data handling. Achieved **95% accuracy** in tracking exercises like squats and curls, providing **real-time performance analysis**, won **2nd place at Silicon Hacks** for this innovative project.

Harmony Health Python, Flask

[GitHub Link](#)

Engineered an **AI-powered** app using the **Hume AI API** to analyze vocal tones and facial expressions, tracking emotional patterns and mental health conditions. Integrated an **End-to-End Framework** for **Production-Ready LLM** to deliver personalized wellness insights and real-time emotional analysis.

Mass Shooting Predictor Python

[GitHub Link](#)

Developed a predictive **model to analyze and forecast U.S. gun violence** trends, utilizing machine learning algorithms including **KNN**, **Logistic Regression**, **Decision Trees**, and **SVMs**. Currently working on integrating the **Google Maps API** to **visualize high-risk areas**, providing **actionable insights for targeted safety** interventions.

Study Group Finder HTML5, CSS, JavaScript, React.js, Firebase

[GitHub Link](#)

Currently developing a **full-stack** web application to connect SJSU students for study groups. Using **HTML/CSS/JS** for the front-end and **React.js** for dynamic functionality. Progressing towards integrating **Firebase** for user authentication and database management. The app will feature real-time messaging, course-based group creation, and availability sharing, with a focus on user-friendly design and seamless collaboration. Beta deploying Jan 2025

TECHNICAL SKILLS

Programming Languages:	Python, Java, SQL, HTML5, CSS, Javascript
Frameworks:	SciPy, NumPy, Pandas, Scikit-learn, Flask, ReactJS
Developer Tools:	Jira, Git, Docker, AWS, Linux, Excel
ML & Data Science:	TensorFlow, PyTorch, Keras, Scikit-learn