

Akshay Kamath

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EDUCATION

San Jose State University

Bachelor of Science in Computer Science (GPA: 3.75)

San Jose, CA

Aug. 2023 – May 2027

EXPERIENCE

Software Engineer Intern

Cisco

June 2025 - August 2025

Durham, NC

- Built a LangChain/GPT-4 agent flagging **\$100M+** subscription variances; cut analyst review time by **85%**.
- Created a Streamlit dashboard to analyze subscription + backlog records and surface variance drivers to analysts.
- Built Python/SQL pipelines to process over **200,000+** records across **11** tables; exposed metrics via REST APIs.

Technical Consultant (contract)

Tesla

January 2025 – May 2025

San Jose, CA

- Clustered **12,000+** parking lots into **46** priority sites across **3** cities using k-means for charger deployment.
- Built Flask APIs + React/Folium map with PostgreSQL for self-serve owner lookup and ops reporting.
- Documented APIs, schemas, and configs to enable smooth handoff to engineering and operations teams.

Software Engineer Intern

Cisco

May 2024 – August 2024

San Jose, CA

- Built Java/Spring Boot microservices; Dockerized and deployed to Cisco CAE cloud via Jenkins CI/CD.
- Created Kafka pipelines for tax + revenue data (**10,000+**/day) and cut peak-load latency **25%**.
- Added metrics + alerts for observability to speed incident triage and meet internal reliability targets.

Machine Learning Research Assistant

San Jose State University

August 2023 – Present

San Jose, CA

- Built TensorFlow battery-health models + tooling; improved MAE **15%** on NASA and CALCE datasets.
- Optimized self-attention denoiser on **100,000+** cycles; cut prediction time **20%** for monitoring.
- Wrote eval scripts, docs, and config templates so lab members can reproduce and extend experiments.

PROJECTS

Homeplate | *Next.js (React+TS), Node/Express, PostgreSQL, Stripe, Docker*

- Built a DoorDash-style meal-share app matching cooks and guests; browse cuisine, schedule, and review cooks.
- Implemented REST APIs, auth, PostgreSQL schema, and Stripe checkout; Dockerized services for local dev.

Strands | *Spring Boot, React, PostgreSQL, Docker*

- Built Threads-like social app (Spring Boot + React + PostgreSQL) with posts, follows, feed, and search.
- Dockerized full stack with Compose; auto-ran schema + seed SQL for one-command local setup.

File Management System | *Python*

- Built FAT-style virtual file system CLI with metadata.json, FAT/free map, and open-file table persistence.
- Implemented mkdir/create/open/read/write/mv/rm with validation + tests for edge cases and recovery.

LEADERSHIP & ACTIVITIES

Founder & Co-President, SJHacks

Association for Computing Machinery, SJSU

December 2023 – Present

San Jose, CA

- Led **15+** team to run SJHACKS for **250+** builders; raised **\$10K+** (Monster, City of SJ, SJSU).
- Planned next event for **500+**; standardized sponsor outreach + ops workflows to scale logistics/judging.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, Bash

Frameworks: Spring Boot, Flask, FastAPI, React, LangChain

Developer Tools: Git, Docker, Kubernetes, Jenkins (CI/CD), Kafka, GCP

Libraries: pandas, NumPy, scikit-learn, TensorFlow