

# Keith Curry

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## EDUCATION

### San Francisco State University (SFSU)

Double Major: BS in Computer Science, BA in General Biology, GPA: 3.73

San Francisco, CA

Expected Dec 2025

**Awards:** 1st Place: CoSE Research Competition, NIH URIS Scholarship, Genentech Foundation Scholarship, Dean's List

## WORK EXPERIENCE

### Fastly

San Francisco, CA

Software Engineering Intern (Cloud and Container Services)

May 2025 – Aug 2025

- Migrated Kubernetes clusters from Flux to ArgoCD, improving deployment consistency via GitOps workflows
- Developed Pol Patrol to monitor Kyverno adoption across clusters, enhancing compliance visibility
- Reduced workload policy audits ~98% by replacing 15-minute manual sweeps with 20-second automation

### OpenAI

San Francisco, CA

ChatGPT Lab Member

Mar 2025 – Present

- Selected for inaugural cohort shaping how millions of students globally learn and use ChatGPT via peer sessions
- Contributed student use cases featured in ChatGPT for Edu's book *100 Chats for Studying, Career, and Life*

### SFSU: Department of Innovation and Entrepreneurship

San Francisco, CA

Makerspace Technical Program Mentor

Feb 2024 – Present

- Mentored entrepreneurs on fabrication tools and safe, efficient makerspace operations
- Led workshops & coached students in programming, computing, and interdisciplinary project collaboration

### SFSU: Department of Chemistry and Biochemistry (Esquerria Lab)

San Francisco, CA

3D Design, Bioengineering Lab Researcher

Apr 2023 – Present

- Converted 6 3D printers into microscopes to reduce reliance on animal research models
- Engineered IR light pad to image photosensitive organisms without visible-light stress
- Centralized lab code in GitHub and trained team, eliminating duplicated work and improving collaboration

## PROJECTS

### Full-Stack Tutoring Platform (StudyNest) (Django, MySQL, AWS)

- Built tutor booking API and confirmation flow; resolved routing bug that broke booking links
- Developed planner UI (HTML/CSS/JS) with reminders and integrated it into multi-page navigation
- Led AWS EC2 deployment using Nginx/Gunicorn and automated EC2/Trello updates via Discord webhooks

### Policy Compliance Dashboard (Pol Patrol) (Go, Kyverno, Prometheus, Kubernetes)

- Built Go tool to query Kubernetes/Kyverno APIs for 6 compliance fields across hundreds of production workloads
- Integrated Prometheus to surface CI/CD/runtime compliance metrics in real-time dashboards
- Built unit and integration tests with mock clients to validate cluster queries and prevent regressions

### Automated Microscope Platform (RoboCam V2) (Python, Git, Fusion360, Shapr3D)

- Repurposed 3D-printer hardware into a motorized microscope with Python-controlled z-stack imaging
- Built z-stack autofocus using Gabor-filter scoring to reduce blur rates and improve imaging reliability
- Replaced deprecated libraries and refactored system for stability across lab deployments

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

### 3D Printing and Design Club at SFSU

San Francisco, CA

President and Founder

May 2024 – May 2025

- Raised \$2k in 24 hours to send members to national maker conferences
- Founded and led club teaching 3D printing and design; grew printers from 3 to 16 to expand prototyping access

### Association for Computing Machinery/SF Hacks

San Francisco, CA

Outreach Chair/Sponsorship Chair

Apr 2023 – May 2025

- Raised \$20K+ in hackathon sponsorships; furnished new collaborative CS workspace
- Mentored 15 officers; partnered with Fastly, Roblox, and GitHub for events and career fairs
- Formed career advisory board to expand student career resources for 1,700 peers

### Management Leadership for Tomorrow

San Francisco, CA

Career Preparation (CP) Fellow, Campus Recruiting Captain

Apr 2024 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to build leadership and technical skills

## INTERESTS

Gaming, 3D Printing, STEM Education, Mechanical Puzzle Design, DIY Solutions, Robotics, Open-Source Projects