Keith Curry

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EDUCATION

San Francisco State University (SFSU)   San Francisco, CA
BS in Computer Science; BA in General Biology | GPA: 3.75   Dec 2025
Honors: 1st Place, CoSE Research Competition; NIH URISE 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 – Dec 2025
- 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 (Esquerra 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 – Dec 2025
- 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