

Kuljit Uppal

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EDUCATION

University of California, Berkeley

Bachelor of Science, Electrical Engineering and Computer Science — GPA: 3.83

Eta Kappa Nu Honor Society | Officer, Cybersecurity Club | Teaching Intern, CS61B

Aug 2023 – May 2027

Berkeley, CA

EXPERIENCE

Software Engineer Intern

Bkey

May 2025 – Aug 2025

San Francisco, CA

- Developed mobile app with Flutter and ExpressJS + MongoDB backend and RPC proxying
- Built a challenge-based WebAuthn + JWT authentication system, reducing login latency by **~65%**
- Deployed custom ERC-20 tokens and bridge contracts with automated self-custodial wallet generation

Software Engineer Intern

ChannelSeal

Jan 2025 – May 2025

Berkeley, CA

- Engineered multi-tenant Java Spring Boot REST APIs with Jakarta/JPA + PostgreSQL
- Built Alert microservice and CRUD operations, implementing pagination & soft-delete
- Automated discovery of **200+** third-party OpenAPI specs with Python and Azure OpenAI

Project Manager

Code for Good

Sep 2024 – May 2025

Berkeley, CA

- Helped nonprofits optimize volunteer data collection and create engineering metrics
- Led team of **6 developers** to create Github metric visualizations of **30+** repos with JS and Retool
- Automated schedule planning with Apps Script, reducing manual workload by **40%**

PROJECTS

OCF Secure Web | Docker, Python, Linux

Sep 2025 – Present

- Leading a software project with **7 members** to protect **950+** student org websites hosted by the OCF
- Developing infra + software to detect malware with signature detection, log aggregation, and network metrics

Macro Tracker | Python, JS, Firebase, Google Cloud

Nov 2023 – Present

- Deployed a full-stack web app with Flask + GCloud to provide nutrition logging at **10+** campus dining halls/cafes
- Used by over **1100 students** to calculate and track their nutrient intake transparently

Angelus | OpenCV, Express, Flask

Oct 2025

- Developed full camera-to-music pipeline that uses live webcam data, Spotify data, and prompt generation
- Engineered WebRTC streaming and Python backend with MediaPipe emotion/head-motion models

Settling | React, Supabase, FastAPI, Agentic AI

July 2025

- Developed a web app for immigrants with Python + Firebase with legal documentation assistance
- Designed **3** AI agents to create user profiles, tailor job recommendations, and generate career paths

CERTIFICATIONS/HONORS

The Gates Scholarship (1 of 750 national scholars, full ride scholarship)

GIAC Security Essentials & CompTia Linux+

National Cyber Scholar with Honors (top **2%** of CyberStart players nationwide)

National Cyber Challenge Finalist (One of 15 national finalists in CTF)

US Cyber Combine Athlete

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Go, Swift, SQL, PHP, Powershell, JavaScript/Typescript, HTML/CSS

Frameworks: React, Django, Flask, Express, NodeJS, Flutter, REST, Spring, Networking, Reverse engineering

Software: Git, Docker, VS Code, IntelliJ, AWS, Linux, gdb, Ghidra, BurpSuite, Wireshark, Metasploit

Courses: Data Structures, Algorithms, Computer Security, Microelectronic Devices, PCB Design