

Kuljit Uppal

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EDUCATION

University of California, Berkeley <i>Bachelor of Science, Electrical Engineering and Computer Science — GPA: 3.83</i> <i>Eta Kappa Nu Honor Society Officer, Cybersecurity Club Teaching Intern, CS61B</i>	Aug 2023 – May 2027 Berkeley, CA
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EXPERIENCE

Software Engineer Intern <i>Bkey</i>	May 2025 – Aug 2025 San Francisco, CA
Software Engineer Intern <i>ChannelSeal</i>	Jan 2025 – May 2025 Berkeley, CA
Project Manager <i>Code for Good</i>	Sep 2024 – May 2025 Berkeley, 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

• 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

• 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 <i>Docker, Python, Linux</i>	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 <i>Python, JS, Firebase, Google Cloud</i>	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 <i>OpenCV, Express, Flask</i>	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 <i>React, Supabase, FastAPI, Agentic AI</i>	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