Shanaya I. Malik

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EDUCATION

Master's in Electrical Engineering & Computer Science | University of California, Berkeley Aug. 2025 - May 2026

- Concentration: Signal Processing & Wireless Communication
- Relevant Courses: Natural Language Processing; Programming Tools; Electrical Engineering (Game Theory); Information Theory & Coding, User Interface & Design

Bachelor's in Computer Science | University of California, Santa Cruz Sept. 2022 - Jun. 2025

- GPA: 3.97 (Summa Cum Laude)
- Relevant Courses: Data Structures and Algorithms; Advanced Python; Assembly; C-Programming; Computer Architecture; Statistical Probability; Discrete Math; Linear Algebra; Calculus I-III
- Activities: Writing Teaching Assistant, Chancellor's Intern, College Scholars Program, Engineering Website Manager

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Go, MATLAB, Java, JavaScript, Simulink, Assembly, HTML
Libraries/Frameworks: Django, Flask, NumPy, Pandas, React, Paramiko, Terraform, Ansible, Agile/Scrum
Software Tools: Microsoft 365, AWS, Docker, VMware vSphere, KVM, Proxmox, Wireshark, Git, Jira

WORK EXPERIENCE

Graduate Research Assistant Sep. 2025 - Present
Siemens | Mountain View, CA

- Developing a multi-objective energy optimization system for large building, unifying real-time building, grid carbon, and weather data to generate operational schedules that reduce costs and emissions through an operator dashboard

Cybersecurity Sales Engineering Intern May. 2025 - Aug. 2025
Keysight Technologies | Santa Clara, CA

- Developed automation framework in VMware using Python and REST APIs to reduce virtual deployment time for network monitoring solutions by 95%. Documented 20+ pages of technical integration guidance for enterprise customers.
- Automated workflow to have a 79% improvement in efficiency for VM deployment, network configuration, and traffic forwarding.

Software Engineering Intern Jun. 2024 - Aug. 2024
Medtronic | Los Angeles, CA

- Collaborated in an Agile environment to iteratively develop Monte Carlo simulation for Guardian Sensor 4 and Synergy CGMs, manually running 300+ variations of blood glucose calibration patterns.
- Implemented YAML configuration file and used MATLAB to optimize and improve accuracy of insulin-delivery algorithm simulation. Interpreted data flow and signal logging within Simulink system to create 16+ successful unit and functionality tests.

Artificial Intelligence Intern Jun. 2023 - Sep. 2023
Secomind AI | San Jose, CA

- Embedded 7500+ closed issues in React JS and stored it in a Pinecone Vector Database, hosting an application with OpenAI's LLM.
- Developed an interactive Twilio chatbot that responds to user's issues with relevant information on issue frequency, bug classification, and potential debugging solutions.

PROJECTS

Job Application Customizer | https://www.applyto.jobs | Anthropic Claude API, Python, HTML

- App that tailors application materials to a specific job opening, providing users with an ATS-compliant PDF resume, customized cover letter, and relevant information on skill-building certifications.

AWARDS

- UC Berkeley EECS Merit Scholarship Aug. 2025
- [7x] Undergraduate Dean's Honors Sept. 2022 - Jun. 2025
- California State Assembly Leadership Award Oct. 2022
- Presidential Volunteer Service Gold Medal Apr. 2021