

Camerin Lee

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Education

University of Southern California, Viterbi School Of Engineering | Los Angeles, CA

August 2024 - Present

Bachelors of Science, Computer Science

West Los Angeles College | Los Angeles, CA

August 2021 - June 2024

Associate of Science for Transfer in Computer Science

Experience

Systems Testing Intern | Los Angeles Department of Water and Power

August 2025 - Present

- Coordinated in-person end-to-end testing for new web and backend features, triaging 100+ defects and reducing average bug-fix turnaround by 25%.
- Collaborated with software engineers to reproduce, isolate, and debug issues across staging environments.

Undergraduate Research Assistant - Full-Stack Development | USC ICT

June 2025 - August 2025

- Designed and deployed a full-stack web platform (React, TypeScript, PHP, MySQL, AWS EC2) supporting 50+ concurrent users for real-time video/audio capture
- Implemented session state management, encrypted URL routing, and database logging for user interactions.

Research Intern - Superconductor Logic Design | University of Southern California (USC)

January 2025 - June 2025

- Debugged and optimized cell generation pipeline, increasing library coverage from ~30 to 50+ unique cell types
- Wrote Python automation scripts to generate and optimize RSFQ logic cells in KLayout, reducing manual layout time by ~50%

NSF REU Research Fellow | Purdue University | CISTAR NSF Engineering Research

May 2024 - August 2024

- Implemented a stochastic MILP solver in Python (Pyomo, Pandas) to model renewable energy systems with 10k+ decision variables.
- Drafted and presented a research poster based on my model and results to 150+ researchers at Purdue University

Cybersecurity Intern | City of Los Angeles | City Hall East

June 2023 - May 2024

- Automated phishing analysis by writing Python scripts to parse and classify malicious emails, improving triage time by 30%
- Led live cybersecurity awareness sessions for 300+ employees to promote cybersecurity practices
- Coordinated city-wide cybersecurity training programs to ensure development across various departments.

Projects

TopTrait | Full-Stack Roommate-Matching Web Application

October 2025

Backend Engineer — Spring Boot, Supabase Postgres, REST APIs

- Built the entire backend system, designing 20+ REST endpoints and implementing multi-layer architecture (controllers, services, repositories) to support user profiles, matching logic, and real-time data retrieval.
- Engineered a scalable PostgreSQL schema with 15+ normalized fields and wrote versioned SQL migrations.
- Expanded the platform's matching intelligence by adding 5 new lifestyle-scoring attributes, providing up to 40% more match accuracy.
- Engineered real-time bidirectional chat using WebSocket threads and client-side event listeners for concurrent delivery across sessions.

Skills

- Computer Programming:** C/C++, Python, Java, JavaScript/TypeScript
- Developer Tools & Frameworks:** React, Node.js, SQL, Spring Boot, Git, AWS