Susie Kim

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EDUCATION

University of California, Los Angeles | Los Angeles, CA   June 2028
BS in Computer Science   GPA: 4.0/4.0
  - <u>Coursework</u>: Computer Organization & Operating Systems, Data Structures & Algorithms, Introduction to C++
  - <u>Awards</u>: UCLA APLUS Scholarship Endowment, Samueli Foundation Engineering Undergraduate Scholarship

EXPERIENCE

Tori in the House | Los Angeles, CA   May 2025 – Present
Software Developer Intern
  - Develop user-faced full-stack application using **React**, **Node.js**, and **Gemini** to assess interior design preferences
  - Architect solution for lack of contextualized information and healing-centered design in existing assessments
  - Store quiz contents in **Firebase Firestore** to ensure efficient data retrieval and scalable query inputs
  - Apply **object-oriented design principles** to build user-centered application using **React** and **Node.js** that evaluates housing preferences and interior design choices through assessments for homeless clients

Society of Women Engineers (SWE) | Los Angeles, CA   Oct. 2024 – Present
Evening with Industry Committee, Logistics Chair
  - Lead logistics for SWE's largest student-run networking event, connecting **200+ students** and **20+ companies** with **10% of attendees** advancing to next-round interviews through recruiter engagement
  - Collaborate with company recruiters and industry professionals to coordinate participation and hiring initiatives
  - Oversee committee budget for external workshops, resume reviews, and mock interviews for **90+ students**
  - Work with **team of 7** to manage site visits at **PPG Industries** and AWS workshops with **Amazon**

Robot Learning and Reinforcement Learning Lab | Seoul, South Korea   June 2025 – Aug. 2025
Research Assistant
  - Designed a robot simulation advised by **Prof. Youngwoon Lee** in **Python** using **Isaac Lab** with a proximal policy optimization algorithm for construction tasks at **POSCO**, reducing site-related dangers for workers
  - Engineered custom reward functions, integrating **30+ observation states** in **32 training environments**
  - Presented and led discussion on academic papers and recent findings in graduate seminar with **10+ members**, synthesizing feedback into research improvements

TECHNICAL PROJECTS

BruinBites | *Dining Hall Rating iOS App*
  - Design an app using **SwiftUI** that lets students browse, rate, and review on-campus dining halls
  - Architect app with Swift **components**, **modular classes** and **extensions** for maintainability and scalability
  - Integrate **Firebase Firestore** for scalable real-time data storage and retrieval to enable responsive interactions
  - Build a **Python-based web scraper** to automatically extract dining information from UCLA Dining's website

Study Planner | *Tabular Productivity Tool*
  - Engineered a modular REST API using **Express** and **TypeScript** to log study sessions and generate user statistics, deploying using **AWS** configuring EC2 and environment variables
  - Designed a normalized **PostgreSQL** schema with relational tables with Zod-based input validation to enforce data integrity and strict type safety across endpoints and containerized using **Docker**
  - Integrated **JWT** authentication with middleware to protect private routes and manage secure user access

SKILLS AND INTERESTS

Languages: C++, JavaScript, Python, SwiftUI, Java, TypeScript
Frameworks & Tools: React, HTML, CSS, Next.js, Node.js, Firebase, Tailwind, MongoDB, Git
Systems & ML: PyTorch, TensorFlow, Docker, AWS, Isaac Lab, Isaac Sim, PostgreSQL