

Jeevithan Mahenthiran

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science & Computer Science: Game Design B.S.

Expected June 2025

Relevant Coursework: *Principles of Computer Systems Design, Software Engineering I, II & III, Advanced Computer Security, and Introduction to Computer Networking*

PROFESSIONAL EXPERIENCE

Software Engineering Intern

Jan. 2025 - Present

UXLY Software, San Francisco, CA

- Developing a **multi-tool AI chatbot** for customer support using **LangChain**, **LangGraph**, **Salesforce Agentforce**, and **Crew.ai**.
- Integrated the chatbot with e-commerce tools, including retrieving customer data via the **WooCommerce REST API**, managing **session carts**, and implementing **escalation logic**, while also serving as **Scrum Master**.

UI/UX Web Designer Intern

Aug. 2024 - Nov. 2024

Career Counseling, Laney Community College, Oakland, CA

- Designed and implemented an interactive **homepage** for the career counseling website using **Figma** and **Wix**.
- Collaborated with the manager to enhance navigation and visual appeal based on **user feedback**.

Front-End Developer Intern

Mar. 2023 – Feb. 2024

Tech4Good, University of California, Santa Cruz, CA

- Collaborated with cross-functional teams to design and develop a **dynamic web app** for tracking campus **loop buses**, enabling students to view bus locations and schedules in real time.
- Translated **Figma** prototypes into responsive, user-friendly **front-end interfaces**.

PERSONAL PROJECTS/RESEARCH

Falsification of Autonomous Driving Stacks | *Python, CARLA 0.9.15, Scenic 2.1, VerifAI, ChatScene, WSL*

- Conducted research utilizing the **CARLA** driving simulator on **WSL** to test autonomous vehicle stacks.
- Focused on determining which **initial parameters** (speed, & distance) and used **ChatScene** to determine patterns for most **violations**, **crashes**, or **lack thereof**.

UCSC SlugRush Gym Tracker | *Next.js, Tailwind CSS, FastAPI, PostgreSQL, Supabase*

- Developed a **full-stack web app** allowing UCSC students to track **gym crowd levels** in real time.
- Built with **Next.js** and **Tailwind CSS**, with a **FastAPI** server and a **PostgreSQL** database hosted on **Supabase**.

Network Router and Firewall | *Python (Mininet, POX Controller)*

- Implemented a **simulated network** for a multi-subnet environment, including **routing** and **firewall rules** to manage **IP** and **ICMP traffic** between **trusted** and **untrusted hosts** using **Mininet** and a custom **POX** controller.

Public & Private Key Cryptography | *C*

- Developed a **key generator**, **encryptor**, and **decryptor** using the **Schmidt-Samoa** cryptographic **algorithm**.

Multi-Threaded HTTP Server | *C*

- Developed a **multi-threaded HTTP** server, capable of processing **GET** and **PUT** requests across different directories.

Order | *C++*

- Built a **Dictionary ADT** using a **Binary Search Tree** to store and organize string keys with **multiple** associated **value pairs**, optimizing data organization and retrieval processes.

TECHNICAL SKILLS

Languages: Next.js, Node.js, React, HTML/CSS, C/C++, C#, Python, Java, and Assembly

Technologies: Git, Unix, Linux, Valgrind, Figma, Tailwind CSS, Angular, Firebase, Mininet, Unity, and Spring Boot

Tools: Next.js, FastAPI, PostgreSQL, Supabase, CARLA Simulator, WSL