Jeevithan Mahenthran

+1 510-258-6918 | jeevithanmahenth@gmail.com | jeevithanmahenthran.com | Github | Linkedin

EDUCATION

University of California, Santa Cruz

Master of Science in Computer Science & Engineering	*Expected June 2027*
Bachelor of Science in Computer Science & Computer Science: Game Design	*Graduated June 2025*

Relevant Coursework: *Principles of Computer Systems Design, Software Engineering I-III, Advanced Computer Security, Advanced Computer Networks, and Data Structures & Algorithms*

TECHNICAL SKILLS

Languages: Python, C/C++, C#, JavaScript/TypeScript, SQL, Assembly, Bash
Frameworks & Tools: Next.js, Tailwind CSS, LangChain, PostgreSQL, Git, Docker, AWS, Unity

PROFESSIONAL EXPERIENCE

Full Stack Software Developer   *May 2025 - Present*
jLabs ENTs Research, UC Santa Cruz, Santa Cruz, CA
- Develop and maintain DirtViz web platform for ENTS (Environmental NeTworked Sensing) project, enabling real-time visualization of agricultural sensor data from IoT devices
- Build full-stack features using React/MUI frontend and Flask REST API backend with Docker containerization, including user interface components, database schema changes, and comprehensive testing

Software Engineer Intern   *Jan. 2025 - June 2025*
UXLY Software, San Francisco, CA
- Created intelligent chatbot using LangChain ReACT agent to automate customer support workflows including product queries and order management for e-commerce client
- Built conversational commerce tools enabling users to manage shopping carts and process orders through natural language, handling user authentication between React frontend and backend

Frontend Developer Intern   *Mar. 2023 – Feb. 2024*
Tech4Good, UC Santa Cruz, Santa Cruz, CA
- Built responsive web interfaces from Figma mockups using HTML/CSS, collaborating with development teams through code review and handoff for production implementation

PROJECTS

UCSC SlugRush Gym Tracker | *Next.js, Tailwind CSS, FastAPI, PostgreSQL, Supabase*
- Built full-stack gym crowd tracking web app for UCSC students using Next.js frontend and FastAPI backend with PostgreSQL
- Achieved **2,000+ users** post-launch and is being adopted into official UCSC campus resources, providing real-time tracking and historical trends

Multi-Tool Customer Service Chatbot | *React, Flask, PostgreSQL, Supabase, LangChain, Docker*
- Built agentic customer service chatbot using **LangChain ReACT** framework with RAG for product recommendations and automated cart/order management
- Developed React e-commerce platform and integrated chatbot with Aporia Guardrails for safe autonomous customer interactions

Public & Private Key Cryptography | *C*
- Developed a key generator, encryptor, and decryptor using the Schmidt-Samoa cryptographic algorithm.

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.