EMMA LEE

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CAREER OBJECTIVE

A dedicated student pursuing a B.S. in Computer Science with strong Java/React/C++ backgrounds looking for full-stack web/mobile development. I am looking to bring my ability to write readable, scalable code and my problem-solving skills to an innovative team.

EDUCATION

University of Washington, Seattle — September 2022 - Present
B.S. in Computer Science & Engineering, Minor in Math & Business
Relative coursework: OS, Systems Programming, Algorithms, Data Structures & Parallelism, Foundations of Computing II
Overall GPA: 3.84, Dean's List

EXPERIENCE

UW Allen School / Foster Business — September 2024 - Present
Teaching Assistant — *Seattle, WA*
- CSE 190B Direct Admit Seminar: Developed and executed weekly seminar plans for **320+ CS direct admit students**; mentored and provided guidance to 28 first-year students
- FIN 205 Personal Finance: Led weekly open office hours on essential personal finance topics; attended weekly staff meetings; supported course development and graded course material

UW COM² — June 2023 - Present
Executive Graphics Director — *Seattle, WA*
- Created impactful social media + print graphics using Canva, Procreate, and Adobe Photoshop.
- Led a team of 3 graphics designers and promoted the computing community to **over 2,000 UW CS students + faculty**.
- Check out the graphics at my personal website linked above or at https://www.instagram.com/uwcom2/.

UW Allen School Mobile Intelligence Lab — January 2024 - June 2024
Research Assistant — *Seattle, WA*
- Worked with Prof. Shyam Gollakota to create an iOS app using PyTorch and Swift to identify target speech from noisy environments for improved communication & accessibility for users with low hearing abilities.
- Collaborated closely with the systems team to **reduce audio loopback latency by 800%** from 8ms to 1ms, improving user experience. Collected audio data samples and wrote a script to create random mix samples.

PROJECTS

xk Operating System — March 2024 - June 2024
- A primitive working implementation of an operating system using C based on Unix/Linux booted on real hardware. Added various syscalls, allowed multiprocessing/concurrency, a full-featured VM system, and transactional logging.

Web Search Engine — December 2023 - March 2024
- A complete web server implementation with C/C++, HTTP, TCP/IP, Unix/Linux, POSIX, and DNS protocols.
- Includes a webpage search bar that accepts client search requests, finds documents/webpages on the local server, and responds to the internet.

Everlearn — June 2023 - October 2023
- A web programming project built with React + Firebase for a platform where users can exchange learning and teaching.
- Includes user registration with social media sign-on, an integrated chat function, and a point/achievement system for engagement. Submitted to Dubhacks 2023.

BookHub — June 2023 - August 2023
- A web programming project with React frontend and Node.js + Express.js backend.
- Utilized Open Library's public API; users can search for books, record dates, ratings, and reviews, and add booklogs to a book list.

SKILLS AND PASSIONS

Languages/Tools	Java, Python, C/C++, React, Swift, SQL, Git, Figma, HTML/CSS, OCaml, Linux/Unix, Firebase
Passions	Full-Stack, Web/App Dev (Android/iOS), ML, OS, Algorithms, System Design, Multivar. Calculus, Linear Algebra
Personal Skills	Problem Solving, Creativity, Organization Skills, Leadership, Motivation, Time Management, Optimism
Hobbies	Snowboarding, hiking, figure skating, piano, YouTube channel. I love exploring what the world has to offer and getting good food and personal connections on the way!