SEOHYUN (EMMA) LEE

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EDUCATION

University of Washington, Seattle September 2022 - June 2026

B.S. in Computer Science & Engineering, Minor in Math & Business

Relative coursework: OS, Systems Programming, Algorithms, Data Structures & Parallelism, Foundations of Computing I, II

Overall GPA: 3.84, Dean's List

EXPERIENCE

CSE 190B DA Seminar: Teaching Assistant September 2024 - Present
Paul G. Allen School of Computer Science *Seattle, WA*

· Developed and executed weekly seminar plans for **350+ CS direct admit students**, attended weekly staff meetings
· Mentored and provided guidance to 28 first-year students

FIN 205 Personal Finance: Teaching Assistant September 2024 - Present
UW Foster Business School *Seattle, WA*

· Led weekly open office hours on essential personal finance topics and provided technical support on the course platform
· Attended weekly staff meetings; supported course development and graded course material for **400 students**.

Executive Graphics Director June 2023 - Present
UW COM² *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/.

Research Assistant January 2024 - June 2024
UW Allen School Mobile Intelligence Lab *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

· Developed a primitive working implementation of an operating system in C based on Unix/Linux architecture booted on real hardware.
· Implemented key functionalities such as system calls, multiprocessing/concurrency, a comprehensive virtual memory (VM) system, along with transactional logging to ensure data integrity.

Web Search Engine December 2023 - March 2024

· Built a full-featured web server implementation in C/C++, supporting HTTP, TCP/IP, Unix/Linux, POSIX, and DNS protocols.
· Developed a search bar functionality that accepts client search requests, locates documents and webpages on the local server, and sends responses back 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.

SKILLS AND PASSIONS

Languages/Tools	Java, Python, C/C++, React, Swift, HTML/CSS, Git, Figma, SQL, OCaml, Linux/Unix, Firebase
Passions	Full-Stack, Web/App Dev (Android/iOS), ML, OS, Algorithms, System Design
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!