

Emily Kang

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Education

University of Washington-Seattle

Expected Graduation: June 2025

B.S. in Computer Science

Relevant Coursework: Data Structures and Algorithms, Databases, Distributed Systems (Planned), Systems Programming (C/C++), Hardware and Software Interface, Intro to Data Programming

Work Experience

Data Engineer Intern | Python, Pandas, Docker

October 2024 – Present

Climate Risk Lab

University of Washington

- Will develop full-stack software, analyze and build pipelines for large datasets about Washington power infrastructure

Software Engineer Intern – Full Stack

June 2024 – September 2024

Boeing

Seattle, WA

- Saved 3 hours a month for 3 teammates by automating **80%** of the customer audit, and improving accuracy by **40%** in Java
- Improved the experience of 13 airline customers by using **TypeScript**, Angular, Spring Boot to simplify the customer portal
- Helped identify flight log issues **20%** faster in a log processor by using **Python** and Django to display under-performers
- Analyzed performance of customer flights and root causes of errors by monitoring incoming flight logs for two weeks

Software Engineer Intern – Backend

June 2023 – September 2023

Boeing

Tukwila, WA

- Reduced development time by **10%** for future teams by implementing the new design for the mission data manager
- Collaborated on internal tools in **C++** to aid software development in defense customers and 5 internal teams
- Improved the core configuration framework by **5%** with more robust exception-handling in all services
- Developed **15** automated C++ unit tests with GMock; discussed design and safety choices

Projects

SmartShare | React, Next.js, AWS, Tailwind

In development

- Led development of a social media app that won \$2000 in funding, and will help students network and share resources
- Configured the tech stack with AWS Amplify, Cognito, and other services
- Developed in React, Next.js, Tailwind and Chakra UI

Website for Cafe | React, TypeScript, Tailwind

Web Impact Club

- Developed a mobile-first website for a local cafe in React, TypeScript and Tailwind to increase its customer engagement
- Coded the Contact and About pages, navigation bar, routing, and API requests to Sanity Content Management System
- Collaborated with 3 other developers by guiding 4 early coding sessions and collaborating with designers

Search Engine | C, C++

- Implemented a local search engine database and query processor in C/C++ that matches key words to index files
- Coded a web server using sockets with HTML output that accepts user queries and displays files, websites

Flight Application | Java, MySQL, Azure

- Developed a terminal app with complex SQL queries of 1.3 million flights to simulate reservations and payments for flights
- Enabled several instances to safely create users and handle payments without conflicts, by making transactions concurrent

Skills

- **Languages:** Java, Python, C++, C, TypeScript, JavaScript, SQL, HTML/CSS
- **Frameworks:** React, Angular, Django, Spring Boot, Tailwind
- **Tools:** AWS, Azure, Kubernetes, Git, Jira, MS SQL, JSP