

Wooyoung Kim

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EXPERIENCE

UX/UI Intern

June 2022 - May 2023

Panasonic Corporation of North America

Denver, CO

- Led qualitative user research on Vehicle-to-Everything (V2X) technology enabled intersections' devices management system that allowed users to monitor 800+ intersections (B2B) for transportation agencies.
- Led a team of 3 in designing device view, map legend interaction, health status interaction of the system, while collaborating with engineers and data scientists until the release of product.

Data Engineering Intern

July 2021 - Feb. 2022

Seattle Department of Transportation

Seattle, WA

- Used **SQL** and **Python** code that automated the process of importing traffic data from partner agency, reducing the turnaround time from multiple business days to instantaneous, enabling more timely and informed decision-making
- Developed **JavaScript** code that automated the extraction of traffic data from internal server website cutting time from multiple hours of repetitive clicking to a passive 20 minutes.
- Developed **Python** code that automated the process of importing and cleaning traffic data from a vendor API, pushing it to an internal server, that displayed to hundreds of thousands of travelers across city messaging signs.

PROJECTS

gRPC Distributed File System | C++

Mar. 2024 - April 2024

- Designed and implemented a multi-threaded distributed file system that allows asynchronous read write operations from multiple clients.

Multi-Threaded File Transfer Client-Server Architecture | C

Jan. 2024 - Mar. 2024

- Designed and implemented a multi-threaded client-server HTTP-like file transfer protocol for image/text files.
- Implemented a cache server extension that receives request through message queues, and transfers messages back using POSIX shared memory, whilst synchronizing with semaphores in a multi-threaded environment.

Full-Stack Auction Website | MySQL, PHP

Jan. 2024 - Mar. 2024

- Given product requirements and design, developed and planned out a relational database schema from scratch that conforms to ANSI-SPARC standard.
- Developed an application that seamlessly integrates with the database with a UI that facilitates an auction bidding website.

Twitter Sentiment Analysis | Python, HTML, CSS, Flask, Google Firebase

Nov. 2021

- Developed full-stack web application using Twitter Rest API and Sentiment Analysis API.
- Calculated positivity and negativity percentage based on a keyword and Twitter username to analyze a given user's bias towards keyword.

EDUCATION

Georgia Institute of Technology

Jun. 2026 Graduation

Master of Science in Computer Science

Online

University of Washington

Graduated Jun. 2023

Bachelor of Science in Human Centered Design & Engineering

Seattle, WA

TECHNICAL SKILLS

Languages: Java, Python, C#, C/C++, SQL, JavaScript, PHP, HTML/CSS, Bash

Framework & Libraries: pandas, NumPy, Matplotlib, React.js, Node.js, Flask

RELEVANT COURSES

Completed: Data Structures and Algorithm, Algorithms and Computational Complexity, Introduction to Artificial Intelligence, Database Systems, Programming I & II, Web Programming, Intermediate Data Programming, Programming Concepts (C), Graduate Introduction to Operating Systems, Database Systems Concepts and Design

In-Progress: Software Development Process