Paul Han

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Portfolio: seulchan.com

EDUCATION

School: University of Washington, Seattle
Majors: BS in Computer Engineering, BA in Applied Computational Math and Sciences
Expected Graduation: June 2024
GPA: 3.99
Relevant Coursework: Data Structures and Parallelism, Database Management, Systems Programming, Intro to Algorithms, Operating Systems, Computer Networks
Awards: Deans List (Autumn 2020 - Spring 2022)

SKILLS

- **Programming**: proficient in Java, Javascript, C, C++
- **Web Technologies:** proficient in HTML/CSS/Javascript, experienced with React, Express.js, Next.js, Tailwind web technologies
- **Databases**: proficient in SQL with Azure SQL Server and SQLite, beginner level in GROQ
- with Sanity graph database
- **Languages**: fluent in English/Korean/Spanish

PROJECTS

Collaborative Paint App:
- Designed and implemented a full-stack collaborative paint application that allows users to paint on a canvas in real-time.
- Application built using React and Next.js for server-side rendering, with Express.js also used for API endpoints. Uses an Azure SQL Server database to store user data and canvas-sharing information.

Social Media App:
- Implemented a full-stack social media application for uploading and sharing videos.
- Application built using React and Tailwind for front-end UI in conjunction with Next.js for server-side rendering. The application integrates a Sanity database with Next.js API endpoints to store user information and videos.

HTTP Web Server (class project):
- Designed and implemented an HTTP web server in C/C++ using C POSIX API. The web server is capable of serving static files (HTML/CSS/JS).
- Implemented multithreading using POSIX threads to allow the server to handle multiple client requests.

- Integrated a SQLite database with the web server to store query information sent by clients.

WORK EXPERIENCE

Academic Tutor at University of Washington — Seattle, WA

June 2021 — July 2022

- Scheduled and led one-to-one tutoring appointments with students on a variety of topics (particularly math and physics).
- Developed graphical resources used by CLUE (the tutoring organization) to assist students in tutoring sessions.
- Prepared and led monthly inter-organizational meetings with team members.

Exam Review Lead at University of Washington — Seattle, WA

June 2021 — July 2022

- Assisted PHYS 114: "Mechanics and General Physics" for three quarters.
- Prepared and led exam reviews and lectures on physics topics to 50+ students.
- Prepared and led "advanced topics" sessions, on material not typically seen in the course.

CS Teaching Assistant at Gateways Summer School — San Diego, CA

June 2019 — August 2019

- Assisted course in introductory programming in Java for 7-10 grade students.
- Designed and implemented a pipeline using Bash scripts to auto-grade programming assignments.
- Held sessions to assist students in debugging assignments and learning core concepts.