

Younwoo Yim

603E Huron St, Ann Arbor, MI, 48104
734-450-5850 | younwoo@umich.edu

Programming Languages: C++, C, C#, Java, Unity VR and SQL database

Web Development: HTML, CSS, JavaScript, along with React, Flask, and Node.js Express frameworks.

Education

University of Michigan

Bachelor of Science – Computer Science

Ann Arbor, MI

Dec 2023

Course Highlights: Introduction to Computer Organization, Web System, Operating System, Computer Vision, Artificial Intelligence, Autonomous Robotics

Taylor's University

Bachelor of Engineering

Selangor, Malaysia

May 2021

Course Highlights: Introduction to Java, Introduction to C++

Work Experiences

SAMSUNG

Intern, software engineer

Suwon, South Korea

Jun - Aug 2023

- Analyzed data using SQL to identify new energy solutions, discovering that about 30% of users operate AC for over 6 hours daily.
- Computed AI analytical models to suggest an innovative feature targeted to reduce energy usage by 10%.

Hippo tnc

Intern, software engineer

Suwon, South Korea

Jun - Sep 2022

- Collaborated with a three-person team to recreate the K-WISC-V intelligence test using Unity VR to make more interactive less time-consuming tests and shortened the assessment duration from 2 hours (paper-based formatting) to 30 minutes, enhancing interactivity.

H&M

Sales Assistance

Seoul, South Korea

Jun - Aug 2021

- Strategically repositioned high-demand seasonal products to prominent displays, enhancing visibility and contributing to a 10% increase in sales.

Projects

MapReduce Search

HTML/CSS/JavaScript/React/Flask

Ann Arbor, MI

Dec 2023

- Engineered efficient segmented inverted index of the web pages through the development and execution of a series of MapReduce programs, resulting in a 50% improvement in search query accuracy.
- Constructed an Index Server equipped with a REST API application, delivering search results in a structured JSON format to make the Search Server return search results in HTML format.

Thread Library/memory manager/network file system (OS)

C++

Ann Arbor, MI

Dec 2023

- Implemented interface that the C++ standard thread library and the infrastructure provides to the application consists of CPU, thread, mutex, and cv.
- Developed a pager system complete with system calls enabling applications to create, copy, destroy address space, and allocate space within existing address regions.

Image Colorization

Python

Ann Arbor, MI

Apr 2023

- Developed a PyTorch-based image colorization model, leveraging a comprehensive dataset for training and evaluating, which achieved an 18.7% increase in the SSIM index for the train set.

Activities

KISA - Korean International Student Association

Media Relations

Ann Arbor, MI

Aug 2021 – Dec 2023

- Operated monthly social events and fundraising to establish bonding with students and spread Korean cultures, organizing mentor/mentee sessions to help freshmen.

Language: Korean(*native*), English (*TOEFL 101/120*)