

Younwoo Yim

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Skills: C++, C, C#, Java, python, Unity (VR), HTML, CSS, JavaScript, SQL, MS Office, PyTorch, React, Flask

Education

University of Michigan

Bachelor of Science – Computer Science

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

Taylor's University

Bachelor of Engineering

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

Ann Arbor, MI

Dec 2023

Selangor, Malaysia

May 2021

Work Experiences

SAMSUNG

Intern, software engineer

Suwon, South Korea

Jun - Aug 2023

- Identified that approximately 30% of users operate AC for over 6 hours daily from user data with SQL.
- 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 in a three-person team to create interactive intelligence tests which based on K-WISC-V.
- Reduced the assessment duration from 2 hours (paper-based format) to 30 minutes.

H&M

Sales Assistance

Seoul, South Korea

Jun - Aug 2021

- Established satisfying customer service strategies, directly leading to an increase in successful sales by 10%.

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.

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

- Discussed types of models with teammates and developed an image colorization Model using PyTorch with a comprehensive dataset to train and evaluate a model.
- Resulted in the SSIM index of the train set of data increasing by 18.7%.

Auto Rob

JavaScript

Ann Arbor, MI

Apr 2023

- Simulated the kinematic articulated robots and applied autonomous path and motion planning.

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*)