

Interests

- Applying machine learning to medical data
- Computational epidemiology
- Precision medicine

Skills

- **Languages:**
 - **Proficient:** C#, Dart, Java, Python LaTeX
 - **Familiar:** C++, Javascript, MATLAB
- **Frameworks & Libraries:** Flutter, OpenCV, PyTorch
- **Operating Systems:** Linux, Mac OS X, Windows

Current Responsibilities

University of Iowa

M.C.S. Computer Science Student
GPA:3.9

Aug. 2022 – Current
Iowa City, IA

Otolaryngology-Head & Neck Surgery

Gen Sci Lab Research Assistant

Sep. 2022 – Current
Iowa City, IA

Current Projects

Deep learning-based identification of dysphagia in early Parkinson disease using High Resolution Manometry.

Working under Prof. Matt Hoffman at the University of Iowa Health Care, Department of Otolaryngology - Head & Neck Surgery.

NEAT(NeuroEvolution of Augmenting Topologies) Based Vaccine Allocation for Effective Epidemic Intervention.

Working under Prof. Bijaya Adhikari from the University of Iowa, Computational Epidemiology lab.

Academic Professional Experience

Undergraduate Researcher

University of Utah

May 2016 – Aug. 2017
Salt Lake City, UT

- Developed automated grading service for CS3505 - Software Practice - II(C++) for Prof. David E. Johnson

Teaching Assistant

University of Utah

Feb. 2016 – May 2017
Salt Lake City, UT

- CS1030 : Foundations of Computer Science
- CS1410 : Object-Oriented Programming
- CS2100 : Discrete Structures

Professional Experience

Co-founder & CTO

DiveFlash

Apr. 2021 – Apr. 2022
Jeju, South Korea

- Researching image processing algorithms to enhance underwater photographs. Published a mobile application on iOS App Store and Android Play Store named DiveFlash.
- OpenCV, C++, Flutter, YOLO and Python

Hyunjin Cho

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Java Software Developer Freelancer

ICanManagement

- Developed and maintained Web, Mobile application of SK Magic Inc. Malaysia
- Java, Javascript, Oracle DB and Linux

Apr. 2020 – Dec. 2020
Seoul, South Korea

System Integration Coordinator

Xandar Kardian

- Deployed, calibrated, and configured healthcare devices utilizing Ultra-WideBand radar (UWB-Radar). Collaborated on system integration with products sourced from external companies.
- C, C#, Javascript, Linux

Jan. 2020 – Mar. 2020

Assistant Research Engineer

EnDCS

- Developed combat simulator for the Republic of Korea Navy's Aegis destroyers class battleship KDX-III Batch-II
- C#, WPF, C++, DDS, TCP, and UDP

Dec. 2018 – Dec. 2019
Gyeonggi, South Korea

Corporal

Republic of Korea Army

- Capital Corp's command center as Army RTO(Radio Telephone Operator)

Nov. 2017 – Nov. 2018
Gyeonggi, South Korea

Prior Education

University of Utah

B.S. Major in Computer Science (Data track)
Minor in Mathematics
GPA:3.33

Aug. 2012 – Aug. 2017
Salt Lake City, UT