Junkeun Park

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github.com/discrim

Skills

Software

- Fluent: C, Python (TensorFlow, PyTorch), MATLAB, Linux, Bash
- Intermediate: C++, JULIA, LaTeX, Markdown, Git
- Basic: Verilog, Android, Java, SQL, HTML, CSS

Hardware

Analog/Digital Circuits, Arduino, FPGA, Raspberry Pi

3D Printing (worked as lab manager)

Ultimaker and Formlabs printers, Autodesk Fusion 360

Language

Fluent: Korean (Native), English
Basic: French

Leadership

Joint Alumni Association of Gangseo High - Yonsei Univ.
President Mar. 2017 ∼ Present

- Rebuilt the leadership after a sudden disappearance of a former president.
- Held alumni career fair and exam snack event.

Kwan-Seol Cha-Hoe: Korean Traditional Tea Club, Yonsei Univ.
Pres, VP, Treas. Jul. 2015 ∼ Jan. 2017

- Planned and conducted tea lectures in English for international students.
- Established connection between the club and BongChu Food System Co. to evaluate their tea products.
- Launched club asset list to control stock of teas and equipment.

Volunteer

Ji-eum, Yonsei Univ.
Oct. 2017 ∼ Jun. 2019

- Deployed, collected, washed tumblers which were free to borrow to reduce the usage of disposable cups.
- Cleaned school cafeteria and donated my earnings to students in need.

Education

University of Michigan
Ann Arbor, MI
May 2021
GPA: 3.23 / 4.00
M.S. in Electrical & Computer Engineering - Signal & Image Processing and Machine Learning
Coursework: Matrix Methods (Signal Processing, Data Analysis, Machine Learning), Random Process, Computer Vision, Optimization, Medical Imaging Systems, Parallel Computing, Natural Language Processing, Machine Learning

Yonsei University
Seoul, South Korea
Aug. 2019
GPA: 3.61 / 4.30
B.S. in Electrical & Electronic Engineering
Coursework: Signals and Systems, Digital Signal Processing, Data Structure and Algorithms, Application Programming, Computer Architecture, Operating Systems, Computer Network

Work

Dell EMC through Multidisciplinary Design Program at UMich
Ann Arbor, MI
Jan. 2020 ∼ Dec. 2020
Software Engineer (Backend), Project Manager

- Implement a full-stack system that locates assets in data center using Bluetooth 5.1 direction-finding technology.
- Research on algorithms of Angle of Arrival and implement them in Python (NumPy, TCP).
- Participate in agile development cycle.
- Manage the private GitHub repository.

POSCO, Electrical & Instrument & Control Tech Division
Pohang, South Korea
Jan. 2019 ∼ Feb. 2019
Intern
Proposed Time-Frequency Domain Reflectometry, a cable diagnosis method using signal processing for steel mill.

C Language Class (Engineering Information Processing), Yonsei Univ.
Seoul, South Korea
Sep. 2018 ∼ Dec. 2018
Teaching Assistant
Instructed C language to freshmen during lab sessions.

UNESCO APCEIU
Seoul, South Korea
Jul. 2015 ∼ Aug. 2015
Intern; Organizer & Field Staff
Prepared and operated 15th Asia-Pacific Training Workshop involving 30 educators from 19 countries.

Research

Optical Imaging Systems Lab, Yonsei Univ. (Advisor: Prof. Seung Ah Lee)
biomedia.yonsei.ac.kr
Seoul, South Korea
Mar. 2019 ∼ Jun. 2019
Research Assistant
Finding a hidden camera using Raspberry Pi IR Camera.
Lensless Microscopy / Purkinje Imaging

Medical A.I. Lab, Yonsei Univ. (Advisor: Prof. Dosik Hwang)
mai-lab.net
Seoul, South Korea
Dec. 2016 ∼ Jun. 2017
Undergraduate Researcher
Implemented a novel CNN (TensorFlow) involving Fourier transform to remove artifacts from undersampled MR images.

Projects

Computer Vision, UMich Apr. 2020
Implemented "Few-Shot Adversarial Learning of Realistic Neural Talking Head Models".

Terminal Live @ Umich by Citadel & Correlation one, Ann Arbor Sep. 2019
Designed algorithms for Terminal hackathon, an automated real-time strategy game.

Computer Architecture, Yonsei Univ., Seoul, South Korea May 2018 ∼ Jun. 2018
Implemented pipelined architecture of MIPS processor.

Video Interpolation, Yonsei Univ, Seoul, South Korea Oct. 2017 ∼ Dec. 2017
Designed an RNN architecture that improved FPS of a video.

Digital Signal Processing, Yonsei Univ. Seoul, South Korea Mar.2017 ∼ Jun. 2017
2D Signal Filtering & Coding / Audio Signal Filter Design (MATLAB)