Hello, I'm a computer engineer with machine learning and signal processing background.
I enjoyed computer programming since I was 9.

"Kiyoon" stands for glowing field. I want to make my field of study glow in the future.

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Education

- **Ulsan National Institute of Science and Technology (UNIST)** — Ulsan, South Korea
  Bachelor in Electrical Engineering, Computer Science and Engineering — *Mar 2014 – Feb 2018 (estimated)*
  - **GPA of Computer Science and Engineering**: 4.15/4.3 (9.65/10)
  - **GPA of Electrical Engineering**: 3.89/4.3 (9.05/10)
  - **GPA of both majors**: 3.97/4.3 (9.23/10)
  - **Total Grade Point Average**: 3.77/4.3 (8.77/10)

Scholarships

Currency measure: 1 USD = 1131.63 KRW (24 Sep, 2017)

- **UC Berkeley Entrepreneurship Programme** — UNIST
  ₩9,975,200 ($8,815) — *Jan 2017 – Feb 2017*
- **Living Expense** — UNIST
  ₩2,140,000 ($1,891) — *Mar 2016 – Feb 2018*
- **Textbook Expense** — UNIST
  ₩2,517,600 ($2,225) — *Mar 2016 – Feb 2018*
- **National Science & Technology Scholarship** — Korea Student Aid Foundation
  ₩12,588,000 ($11,126) — *Mar 2016 – Feb 2018*
- **Learning Assistant for Engineering Programming I (3 semesters)** — UNIST
  ₩1,200,000 ($1,060) — *Sep 2014 – Dec 2015*
- **Full Enrolment Fee of UNIST** — UNIST
  ₩12,660,000 ($11,187) — *Mar 2014 – Feb 2016*

Experience

- **EgoVid Inc. (http://egovid.com)** — Ulsan, South Korea
  Machine Learning Researcher & Developer — *May 2016 – Present*
  - **Realtime Demonstration running on Embedded Device at CVPR 2017**: At CVPR (Computer Vision Pattern Recognition) 2017 conference, I demonstrated my work running on NVIDIA TX2 and helped my colleague for implementing different demonstration about Video Anonymisation Algorithm.
    https://youtu.be/7jkSum_pj9o?t=25s
  - **Thesis: Extreme Low Resolution Activity Recognition**: Activity recognition using 16x12 resolution video, mainly for privacy preserving purpose. Siamese embedding space used for learning. I did all the experiments with Keras (Tensorflow) library, including some previous related works. Python, Bash, and CUDA (GPU programming) are used.
    https://arxiv.org/pdf/1708.00999.pdf
  - **UC Berkeley Entrepreneurship Programme**: Visited UC Berkeley Sutardja Center of Entrepreneurship & Technology for 9 weeks to exchange ideas about making a start-up company.
    UC Berkeley News Article: http://scet.berkeley.edu/keeping-personal-machine-learning-meets-egovid/

- **Attended Conferences**: AAAI conference on AI 2017, San Francisco, California, USA
  Asilomar 2016, Pacific Grove, California, USA
  Ubicomp 2016, Heidelberg, Germany
- **Linux GPU Computing Server Setup for Machine Learning**: Installed Ubuntu Server and programs needed for machine learning and sharing devices with multiple users. VNC remote desktop, Docker and Virtualenv.
- **Study: Machine Learning and Computer Vision**: Studied machine learning and computer vision with Coursera, Udacity courses.
- **Study: OFDM Radar Signal Processing**: Studied OFDM radar signal processing for possible future work in radar classification machine learning problem.

- **USPTO Patent Information Crawler** — UNIST
  Developed in Python for building custom database. — *Dec 2015 – Apr 2016*

- **Korea Supercomputing Challenge (KSC 2015)** — KISTI Supercomputing Education Center
  *MPI parallel computing competition: won **5th place*** — *Oct 2015*

- **Intel Xeon Phi optimisation, parallelisation education** — Intel Corp.
  Completed the education with practices about OpenMP, Vectorisation, and Intel compiler — *Aug 2015*

- **Personal Linux Server Buildup** — Personal
  Fedora server buildup for personal use — *Aug 2015*
  - File cloud server
  - Multimedia streaming server
  - Git server
  - Dropbox-like sync server
  - URL shortener
  - Web server

- **WISET Startup Springboard** — UNIST
  Completed the entrepreneurship programme — *Aug 2015*

- **HeXATHON** — UNIST, NAVER Corp.
  *QR code waiting system implemented with Raspberry Pi: won **1st place*** — *May 2015*

- **UNIST Startup Clinic** — UNIST
  Smart home app controlling electric output — *Mar 2015*

- **Learning Assistant for Engineering Programming I** — UNIST
  Taught for 3 semesters, 3 students per each semester. — *Sep 2014 – Dec 2015*

- **Math Teacher at Private School** — Morning of Math
  High school problem-solving assistant — *Jul 2014 – Aug 2014*

- **Patent: Falling out of hair management system** — South Korea
  Hair proportion analysis algorithm implemented by CxImage and MFC. — *Jan 2013 – Jul 2014*
  - https://patents.google.com/patent/KR20140094301A/en

- **Korea International Science and Engineering Fair (KISEF 2012)** — National Science Museum
  Exhibited and Demonstrated PowerUpdater2 at Daejeon Convention Center — *Jan 2012*

- **Korea Olympiad in Informatics (KOI 2011)** — National Information Society Agency
  *Demonstrated PowerUpdater2: won **bronze medal*** — *Sep 2011*

- **Sparkware (http://sparkware.co.kr)** — Personal
  Personal Website Management (XpressEngine), Program Development (C++, MFC) — *May 2010 – Aug 2013*
  - **PowerUpdater, PowerUpdater2**: An updater program that can be customised by users easily with GUI menu.
  - **Waviano**: Playing piano with keyboard using multiple music files.
  - **PowerRegister**: An customisable activation program for Windows application programmers.
  - **DirectoryDateName**: Easily make directory with name containing current date.
  - **Flash programs**: Simple Flash programs.

- **Flash programming** — Personal
  Studied and implemented simple Flash programs — *Nov 2004 – Apr 2010*
  - Elementary, middle school teachers used my programs.
  - Managed a blog to release some programs.

Skills and Knowledge

Deep Learning, Signal Processing, Linux server buildup, Web development, Machine integration, Video editing and filmography, Product design

Languages, Frameworks and Tools

C · C++ · Python · Linux Bash · MATLAB · TensorFlow / Keras (Machine learning) · MPI (Parallel programming) · CUDA (GPU parallel programming) · Git (Version control) · Docker · Raspberry Pi (IoT Linux) · MFC (Windows programming) · Java · HTML · PHP · MySQL / Maria DB · Flash action script · NXT Robot C · Xpress Engine(Website) · Wordpress(Website) · LaTeX