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 program   *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*

- **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