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.

Kiyoon Kim

http://kiyoon.kim/

Email :   im@kiyoon.kim
           kiyoon@egovid.com
Mobile :   +82-10-5133-5449

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*

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