



Hello, I'm a computer engineer with machine learning and signal processing background.

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 (98.5/100)
 - **GPA of Electrical Engineering:** 3.89/4.3 (95.8/100)
 - **GPA of both majors:** 3.97/4.3 (96.6/100)
 - **Total Grade Point Average:** 3.77/4.3 (94.5/100)

SCHOLARSHIPS

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

- **UC Berkeley Entrepreneurship Programme** UNIST
₩9,975,200 (\$8,815) *Jan 2017 – Mar 2017*
- **Living Scholarship** UNIST
₩2,140,000 (\$1,891) *Mar 2016 – Dec 2017*
- **Allowance** UNIST
₩2,517,600 (\$2,225) *Mar 2016 – Dec 2017*
- **National Science & Engineering Scholarship** Korea Student Aid Foundation
₩12,588,000 (\$11,126) *Mar 2016 – Dec 2017*
- **Tutor for Engineering Programming I (3 semesters)** UNIST
₩1,200,000 (\$1,060) *Sep 2014 – Dec 2015*
- **Academic Performance Scholarship** UNIST
₩12,660,000 (\$11,187) *Mar 2014 – Dec 2015*

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:** AAI 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 synchronisation 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*
- **Tutor for Engineering Programming I** UNIST
Taught the subject 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 · TensorFlow / Keras (Machine learning) · MPI (Parallel programming) · CUDA (GPU parallel programming) · MATLAB · 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) · L^AT_EX