



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

**Kiyoon Kim**

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## EDUCATION

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- **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

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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

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- **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](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 synchronisation server
  - URL shortener
  - Web server
- **WISSET 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

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

## LANGUAGES, FRAMEWORKS AND TOOLS

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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) ·  $\text{\LaTeX}$