

Kiyoon Kim http://kiyoon.kim/ Hello, I'm a computer engineer with machine learning and signal processing background.

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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 (98.5/100)

o GPA of Electrical Engineering: 3.89/4.3 (95.8/100)

o GPA of both majors: 3.97/4.3 (96.6/100)

o Total Grade Point Average: 3.77/4.3 (94.5/100)

SCHOLARSHIPS

Currency measure: 1 USD = 1,092.30 KRW (13 Dec, 2017)

NAVER UNIST Undergraduate Poster Award (NAVER UUPA) NAVER Corp., UNIST ₩2,500,000 (\$2,289)

Dec 2017

UNIST

UC Berkeley Entrepreneurship Programme

Jan 2017 - Mar 2017

₩9,975,200 (\$9,132) Living Scholarship

UNIST

₩2,140,000 (\$1,959)

Mar 2016 - Dec 2017

Allowance ₩2,517,600 (\$2,305)

UNIST Mar 2016 - Dec 2017

National Science & Engineering Scholarship ₩12.588.000 (\$11.524)

Korea Student Aid Foundation Mar 2016 - Dec 2017

KISTI Supercomputing Education Center

Korea Supercomputing Challenge (KSC 2015)

₩500,000 (\$458) (shared by 2 members)

UNIST, NAVER Corp.

HeXATHON ₩1.500,000 (\$1,373) (shared by 4 members)

May 2015

Oct 2015

Tutor for Engineering Programming I (3 semesters)

UNIST

₩1,200,000 (\$1,099)

Sep 2014 - Dec 2015

Academic Performance Scholarship

UNIST

₩12,660,000 (\$11,590)

Mar 2014 - Dec 2015

EXPERIENCE

NAVER UNIST Undergraduate Poster Award (NAVER UUPA)

NAVER Corp., UNIST

Poster presentation of Extreme Low Resolution Activity Recognition: won 1st place

Dec 2017

EgoVid Inc. (http://egovid.com)

Ulsan, South Korea May 2016 - Present

Machine Learning Researcher & Developer

o Drone Project Manager: Autonomous drone project using ROS on NVIDIA Jetson TX2 embedded board.

- Publication: M. S. Ryoo, <u>K. Kim</u> and H. J. Yang, "Extreme Low Resolution Activity Recognition with Multi-Siamese Embedded Learning," *AAAI Conference on Artificial Intelligence*, New Orleans, Louisiana, February 2018. [acceptance rate: 24.6%] https://arxiv.org/pdf/1708.00999.pdf
- Realtime Demonstration Running on Embedded Device at CVPR 2017: Demonstrated my work running on NVIDIA Jetson TX2 and helped my colleague for implementing different demonstration about Video Anonymisation Algorithm at CVPR (Computer Vision Pattern Recognition) 2017 conference. https://youtu.be/7jkSum_pj9o?t=25s
- 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 Artificial Intelligence 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.

Private Teaching Personal

OOP(C++), Data Structure (C++), and Programming Languages (SML, Rocket, Python) Mar 2016 – Dec 2016

Private Teaching

Personal

Taught C Language for pre-high school student.

Jan 2016 - Feb 2016

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. Aug 2015

Completed the education with practices about OpenMP, Vectorisation, and Intel compiler.

Personal

Personal Linux Server Buildup

Fedora server buildup for personal use

Aug 2015

- File cloud server
- Multimedia streaming server
- o Git server
- o Dropbox-like synchronisation server
- URL shortener
- Web server

WISET Startup Springboard

UNIST

Completed the entrepreneurship programme.

Aug 2015 Personal

Private Teaching

Taught mathematics for high school student.

July 2015 - Aug 2015

HeXATHON

QR code waiting system implemented with Raspberry Pi: won 1st place

UNIST, NAVER Corp.

May 2015

UNIST Startup Clinic

Smart home app controlling electric output

UNIST, NAVER Corp.

Mar 2015

Private Teaching

Taught physics for pre-high school student.

Personal

Tutor for Engineering Programming I

UNIST

Taught the subject for 3 semesters, 3 university students per each semester.

Sep 2014 - Dec 2015

Jan 2015 - Feb 2015

Private Teaching

Taught mathematics for high school student. Jul 2014 - Aug 2014

Math Teacher at Private School

Problem-solving assistant for high school student.

Morning of Math

Jul 2014 - Aug 2014

Patent: Falling out of hair management system

Hair proportion analysis algorithm implemented in CxImage and MFC.

South Korea

Jan 2013 - Jul 2014

o 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

Personal

Korea Olympiad in Informatics (KOI 2011)

National Information Society Agency

Demonstrated PowerUpdater2: won bronze medal.

Sep 2011 Personal

Sparkware (http://sparkware.co.kr)

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.
- Directory Date Name: 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 · Processing · NXT Robot C · Xpress Engine(Website) · Wordpress(Website) · LATEX