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RESEARCH INTERESTS	Computer architecture, high performance computing, cloud computing, memory systems, and hardware security	
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Republic of Korea M.S., Computer Science, <i>Expected:</i> Feb 2018 (GPA: 3.99 / 4.3) Advisor: Jaehyuk Huh, Ph.D. Sungkyunkwan University , Suwon, Republic of Korea B.S., Computer Science, Feb 2016 (GPA: 4.24 / 4.5)	
RESEARCH EXPERIENCE	Research Assistant School of Computing, KAIST Topic: Hardware assisted security Undergraduate Research Assistant College of Software, Sungkyunkwan University Topic: Wireless data communication through inaudible sound	Mar 2016 to present May 2014 to Jul 2015
TEACHING EXPERIENCE	Teaching Assistant CS230 – System Programming Instructor: Jaehyuk Huh, Ph.D. School of Computing, KAIST	Fall 2016
EXTRA ACADEMIC ACTIVITIES	Vice Representative School of Computing, KAIST, Daejeon, Republic of Korea Research Intern Electronics and Telecommunications Research Institute (ETRI) Daejeon, Republic of Korea Topic: Xen virtualization Research Intern Advanced Institutes of Convergence Technology (AICT) Suwon, Republic of Korea Topics: Hadoop and Apache Spark Purdue/NIPA Capstone Project Purdue University, West Lafayette, IN, USA Topic: cooperative fire security system with a humanoid robot Developer Member Samsung Software Membership, Suwon, Republic of Korea Topics: Smart Lecture: HTML5 based lecture share system, intranet total management system, MoleRush: Smart TV - Android interactive game	May 2016 – Aug 2016 Jan 2016 – Feb 2016 Jul 2015 – Aug 2015 Jul 2014 – Aug 2014 Jan 2013 – Apr 2014
HONORS AND AWARDS	National Scholarship, KAIST	2016 – present

	Korea National Scholarship for Science and Engineering, Korea Student Aid Foundation	2014 – 2015
	Excellence Award, 2015 Convergence App Contest, Sungkyunkwan University	Dec 2015
	Dean's List Award, Sungkyunkwan University	Apr 2015
	Dean's List Award, Sungkyunkwan University	Oct 2014
	Grand Prize, 2013 Smart TV App and Peripherals Contest, Korea Ministry of Trade, Industry, and Energy	Nov 2013
	Grand Prize, 2013 Mobile E-learning App Idea Contest, Korea Ministry of Education	Sep 2013
PROJECTS	RTSR: Real Time Video Super Resolution CS570 – Machine Learning Applied deep learning based Single Image Super Resolution (SISR) into videos.	Spring 2017
	HEAD: Hardware Accelerated Deduplication CS710 – Topics in Computing Acceleration with FPGA Implemented Xilinx FPGA based implementation for file data deduplication.	Fall 2016
	SUNSHINE: Service for U to eNhance Self-management Helpfully and Intelligently from Now to forEver CS442 – Mobile Computing and Applications Proposed an intelligent way to control mobile app execution and Internet contents based on contents related factor analysis. Implementation is on Android AOSP 5.0.	Spring 2016
	CSMA/CN: Collision Notification for 802.11 WLAN with BLE CS546 – Wireless Mobile Internet Proposed a way to notify a collision from a router to clients with Bluetooth Low Energy (BLE).	Spring 2016
	Energy Aware Real-time Scheduling Algorithm on ARM big.LITTLE HMP Architecture ECE5756 – Real Time Systems Special Topics Proposed an algorithm to reduce power consumption while keeping real-time constraints.	Fall 2015
	My Summary Note: Automatic Note Summary Application ICE3037 – Design Capstone Project Awarded an excellence prize in 2015 Convergence App Contest Proposed an automatic way of user's summaries in PDFs with Android tablet.	Fall 2015
	Data Transmission with Inaudible Sound A research project as an undergraduate research assistant Proposed a short-distance data transmission mechanism between microphones and speakers embedded in off-the-shelf smartphones.	Jul 2014 – May 2015
	MoleRush: Smart TV - Android Interactive Game A project in Samsung Software Membership Awarded the grand prize in 2013 Smart TV App and Peripherals Contest Designed using smartphones as controllers, and a smart TV as a display board.	Sep 2013
SKILLS	Languages C, C++, Java, Python, Vivado HLS	

Software Frameworks

Mobile: Android

Virtualization: KVM, QEMU

Database: MySQL, MongoDB

FPGA: Vivado, Vivado HLS, Petalinux

GPU: NVIDIA CUDA

Security: Intel Software Guard Extensions (SGX)

Documentation Tools

L^AT_EX, matplotlib, OmniGraffle

REFERENCES

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[CV last updated on Aug 24, 2017]