

Insu Jang

CONTACT INFORMATION	291 Daehak-ro, Yuseong-gu Daejeon, Republic of Korea 34141	+82-10-2578-8375 insujang@calab.kaist.ac.kr
RESEARCH INTERESTS	Computer architecture, high performance computing, cloud computing, memory systems, 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 Research Intern Advanced Institutes of Convergence Technology (AICT) Suwon, Republic of Korea Purdue/NIPA Capstone Project Purdue University, West Lafayette, IN, USA Developer Member Samsung Software Membership, Suwon, Republic of Korea	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 Supported by KAIST Korea National Scholarship for Science and Engineering Supported by Korea Student Aid Foundation Excellence Award, 2015 Convergence App Contest Awarded by Sungkyunkwan University Dean's List Award, Sungkyunkwan University	2016 – present 2014 – 2015 Dec 2015 Apr 2015

	Dean's List Award, Sungkyunkwan University	Oct 2014
	Grand Prize, 2013 Smart TV App and Peripherals Contest Awarded by Korea Ministry of Trade, Industry, and Energy	Nov 2013
	Grand Prize, 2013 Mobile E-learning App Idea Contest Awarded by Korea Ministry of Education	Sep 2013
PROJECTS	RTSR: Real Time Video Super Resolution	Spring 2017
	CS570 – Machine Learning Applied deep learning based Single Image Super Resolution (SISR) technique into videos. [Report] [PPT]	
	HEAD: HardwarE Accelerated Deduplication	Fall 2016
	CS710 – Topics in Computing Acceleration with FPGA Implemented Xilinx FPGA based implementation for file data deduplication. [PPT] [Code]	
	SUNSHINE: Service for U to eNhance Self-management Helpfully and Intelligently from Now to forEver	Spring 2016
	CS442 – Mobile Applications Proposed an intelligent way to control mobile app execution and Internet contents based on contents related factor analysis. [Report]	
	CSMA/CN: Collision Notification for 802.11 WLAN with BLE	Spring 2016
	CS546 – Wireless Mobile Internet Proposed a way to notify a collision from a router to clients with Bluetooth Low Energy. [Proposal] [Code]	
	Energy Aware Real-time Scheduling Algorithm on ARM big.LITTLE HMP Architecture	Fall 2015
	ECE5756 – Real Time Systems and Applications Proposed an algorithm to reduce power consumption while keeping real-time constraints. [Report]	
	My Summary Note: Automatic Note Summary Application	Fall 2015
	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. [Report (Korean)] [PPT (Korean)]	
	Data Transfer with Inaudible Sound	Jul 2014 – May 2015
	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.	
	MoleRush: Smart TV - Android Interactive Game	Sep 2013
	A project in Samsung Software Membership Awarded a grand prize in 2013 Smart TV App and Peripherals Contest Designed a game using smartphones as controllers, and a smart TV as a display board. [Playmovie (Korean)]	

SKILLS

Languages

C, C++, Java, Python, Vivado HLS

Software Frameworks

Virtualization: KVM, QEMU

Database: MySQL, MongoDB

FPGA: Vivado, Vivado HLS, Petalinux

GPU: CUDA

Security: SGX

Documentation Tools

L^AT_EX, matplotlib, OmniGraffle

REFERENCES

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[CV last updated on Aug 23, 2017]