

## Insu Jang

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CONTACT INFORMATION	Computer Architecture Laboratory KAIST, 291 Daehak-ro, Yuseong-gu Daejeon, Republic of Korea 34141	+82-10-2578-8375 insujang@calab.kaist.ac.kr <a href="https://insujang.github.io/about">https://insujang.github.io/about</a>
RESEARCH INTERESTS	Computer architecture, high performance computing, cloud computing, memory systems, and hardware security	
EDUCATION	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Daejeon, Republic of Korea M.S., Computer Science, <i>Expected</i> : Feb 2018 (GPA: 3.99 / 4.3) Advisor: Jaehyuk Huh, Ph.D. <b>Sungkyunkwan University</b> , Suwon, Republic of Korea B.S., Computer Science, Feb 2016 (GPA: 4.24 / 4.5)	
RESEARCH EXPERIENCE	<b>Hardware based Secure Heterogeneous Computing</b> Proposed a trusted I/O interconnect architecture with hardware assisted trusted execution environment. Master thesis research topic <b>Practical Machine Learning on Rack-scale Computing</b> Studied large scale machine learning architecture. Analyzed distributed machine learning frameworks and problems of them. <b>Wireless Data Communication through Inaudible Sound</b> Proposed a communication mechanism with mobile device speaker and microphone. Undergraduate research program (URP) research topic	
TEACHING EXPERIENCE	<b>Teaching Assistant</b> CS230 – System Programming Instructor: Jaehyuk Huh, Ph.D. School of Computing, KAIST	Fall 2016
EXTRA-CURRICULAR ACTIVITIES	<b>Vice Student Representative</b> School of Computing, KAIST, Daejeon, Republic of Korea <b>Research Intern</b> Electronics and Telecommunications Research Institute (ETRI) Daejeon, Republic of Korea Topic: Xen virtualization <b>Research Intern</b> Advanced Institutes of Convergence Technology (AICT) Suwon, Republic of Korea Topics: Hadoop and Apache Spark <b>Purdue/NIPA Capstone Project</b> Purdue University, West Lafayette, IN, USA Topic: cooperative fire security system with a humanoid robot <b>Developer Member</b> 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	<b>National Scholarship</b> , KAIST	2016 – present
	<b>Korea National Scholarship for Science and Engineering</b> , Korea Student Aid Foundation	2014 – 2015
	<b>Excellence Award</b> , 2015 Convergence App Contest, Sungkyunkwan University	Dec 2015
	<b>Dean’s List Award</b> , Sungkyunkwan University	Apr 2015
	<b>Dean’s List Award</b> , Sungkyunkwan University	Oct 2014
	<b>Grand Prize</b> , 2013 Smart TV App and Peripherals Contest, Korea Ministry of Trade, Industry, and Energy	Nov 2013
	<b>Grand Prize</b> , 2013 Mobile E-learning App Idea Contest, Korea Ministry of Education	Sep 2013

SKILLS	<b>Languages</b>
	C, C++, Java, Python, Vivado HLS
	<b>Software Frameworks</b>
	Mobile: Android
	Virtualization: KVM, QEMU
	Database: MySQL, MongoDB
	FPGA: Vivado, Vivado HLS, Petalinux
GPU: NVIDIA CUDA	
Security: Intel Software Guard Extensions (SGX)	

REFERENCES	Jaehyuk Huh	
	Associate Professor, School of Computing, KAIST	e-mail: <a href="mailto:jhhuh@kaist.ac.kr">jhhuh@kaist.ac.kr</a>

[CV last updated on Oct 30, 2017]