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EDUCATION	Massachusetts Institute of Technology2013-Ph.D. in Electrical Engineering & Computer Science• Expected to finish Summer, 2018• Advisor: Arvind	-Present
	Massachusetts Institute of Technology20M.S. in Electrical Engineering & Computer Science20• Thesis: Scalable Multi-Access Flash Store for Big Data Analytics20• Advisor: Arvind20	011-2013
	Seoul National University20B.S. in Computer Science and Engineering20	004-2011
RESEARCH INTERESTS	 Hardware Acceleration: Application-specific hardware acceleration using FPGA Programming system, debugging, and libraries Hardware acceleration in the cloud 	
	 Flash Storage: Out-of-core analytic systems to reduce cost while maintaining perform Distributed flash storage with in-storage accelerators Operating system support for fast storage 	ance
PROFESSIONSL EXPERIENCE	Oracle Inc , Big Data Discovery, Cambridge, MA Summer Intern	2016
	Nexon Inc, Maple Story development team, Seoul, Korea 20 Game Server/Client Software Engineer, Client Security Engineer	05–2007
PUBLICATIONS	"Using accelerated flash storage for external graph analytics," Sang-Woo Jun, Andy Wright, Sizhuo Zhang, Shuotao Xu, Arvind (Under Review) International Symposium on Computer Architecture (ISCA	2018 A)
	"BlueCache: A Scalable Distributed Flash-based Key-value Store," ¹ Shuotao Xu, Sungjin Lee, Sang-Woo Jun , Ming Liu, Jamey Hicks, Arvind International Conference on Very Large Data Bases (VLDB)	2017
	"Terabyte Sort on FPGA-Accelerated Flash Storage," Sang-Woo Jun, Shuotao Xu, Arvind, Field-Programmable Custom Computing Machines (FCCM)	2017

¹Media coverage: MIT News, Inside Science, etc.

	"BlueDBM: Distributed Flash Storage for Big Data Analytics," Sang-Woo Jun, Ming Liu, Sungjin Lee, Jamey Hicks, John Ankcorn, Myr Shuotao Xu, Arvind, ACM Transactions on Computer Systems (TOCS)	2016 on King,
	"Application-Managed Flash" Sungjin Lee, Ming Liu, Sangwoo Jun , Shuotao Xu, Jihong Kim, File and Storage Technologies (FAST)	2016
	"minFlash: A Minimalistic Clustered Flash Array," Ming Liu, Sang-Woo Jun , Sungjin Lee, Jamey Hicks, Arvind, Design, Automation and Test in Europe (DATE)	2016
	"Large-scale high-dimensional nearest neighbor search using Flash memory store processing," Sang-Woo Jun, Chanwoo Chung, Arvind, International Conference on Reconfigurable Computing and FPGAs (ReCo	2015
	"A Transport-Layer Network for Distributed FPGA Platforms," Sang-Woo Jun, Ming Liu, Shuotao Xu, Arvind, International Conference on Field Programmable Logic and Applications (H	2015
	"BlueDBM: An Appliance for Big Data Analytics," ² Sang-Woo Jun, Ming Liu, Sungjin Lee, Jamey Hicks, John Ankcorn, Myr Shuotao Xu, Arvind, International Symposium on Computer Architecture (ISCA)	2015 on King,
	"Scalable Multi-Access Flash Store for Big Data Analytics,", Sang-Woo Jun , Ming Liu, Kermin Fleming, Arvind, International Symposium on Field-Programmable Gate Arrays (FPGA)	2014
	"ZIP-IO: Architecture for Application-Specific Compression of Big Data," Sang-Woo Jun, Kermin Fleming, Michael Adler, Joel Emer, International Conference on Field Programmable Technology (FPT)	2012
TEACHING EXPERIENCE	Teaching AssistantI6.s195 Computer Architecture LaboratoryDepartment of Electrical Engineering and Computer Science, MIT, Cambrid• One of two TAs developing in-class activities and programming lab assig• Weekly recitations, special lectures and mentored 18 students for final• Graded student programming assignments.	gnments.
BOOK CHAPTER	Affordable mongo graph analytics using hardware acceleratead flash storage, in <i>Managing Heterogeneous Data and Polystore Databases</i> , edited by Vijay Gadepally, Sam Madden and and Michael Stonebraker (In progress)	2018

²Media coverage: MIT News, Engadget, Enterprise Tech, The Next Platform, etc.

SCHOLARSHIPS	MIT-Spain La Caxia Foundation	2017
AND GRANTS	Seed fund for collaboration with Barcelona Supercomputing Center	
	Kwanjeong Educational Foundation Scholarship Tuition, Kwanjeong Educational Foundation, Korea	2011-2016
	TOEFL Scholarship ETS (Educational Testing Service), USA	2010
	National Scholarship for Science and Engineering Full Tuition, Aid Foundation, Korean Government	2004-2010
SKILLSET	 Programming Skills FPGA accelerator development: Bluespec, Verilog System software development: Device driver, File system Scalable analytics: Hadoop, Spark, GraphLab, Accumulo 	

Languages: Fluent in Korean and English