	32-G836, Stata Center, MIT Cambridge, MA 02139 wjun@csail.mit.edu http://people.csail.mit.edu/wjun
EDUCATION	Ph.D., Electrical Engineering & Computer Science (2013–Present) Massachusetts Institute of Technology, Cambridge, MA, USA Computation Structures Group (Advisor: Arvind)
	Master of Science, Electrical Engineering & Computer Science (2011–2013) Massachusetts Institute of Technology, Cambridge, MA, USA
	Bachelor of Science, Computer Science and Engineering (2004–2009) Seoul National University, Seoul, Korea
SKILLSET	Languages & Software: C, C++, Bluespec, Verilog, Java, PHP, Javascript, x86 assembly, SQL (MSSQL, MySQL, SQLite), OCaml.
	<i>Expertise:</i> Experience with low-level hardware design on FPGAs. System software development.
	Personal Projects: Operating System development for x86 (bootloader and up), Linux device driver development, Mobile games, distributed file sharing tools, reverse- engineering binaries.
RESEARCH PROJECTS	BlueDBM - Distributed Flash Store for Big Data Analytics 2011-Present BlueDBM is a complete HW/SW stack of a distributed flash storage system with FPGA-based reonfigurable controllers and a hardware-accelerated storage network, aiming to aid in high-throughput analytics and rapid development of hardware ac- celerators. Jointly funded by Quanta, Samsung, Intel and Lincoln Labs. (http://people.csail.mit.edu/wjun/ssd.htm)
	Personalized Power/Performance Optimization for Android Smartphones 2010–2011 National Research Laboratory project funded by the Ministry of Education, Science and Technology, Korean Government.
	Visualizing and Detecting Concurrency Bugs in Multicore Software 2009–2009 Part of the National Information Technology Research Center project (on Develop- ment of Embedded Software for Multicore-based Avionics), funded by the Ministry of Knowledge and Economy, Korean Government.
WORK EXPERIENCE	<ul> <li>Software Engineer, Security Engineer 2005–2007</li> <li>Nexon Inc, Seoul, Korea</li> <li>Client and server developer for MapleStory, Nexon's biggest MMORPG.</li> <li>Client security engineer for MaplerStory, preventing and detecting reverse engineering of client software.</li> </ul>

TEACHING	Teaching Assistant	Fall 2012
EXPERIENCE	6.s195 Computer Architecture Laboratory	
	Department of Electrical Engineering and Computer Science, MIT, Camb	ridge, USA

assignments.

• Worked with another TA to develop in-class activities and programming lab

- Gave TA lectures and mentored students for their final projects.
- Graded student programming assignments.

**NOTABLE** Sang Woo Jun. Ming Liu, Sungjin Lee, Jamey Hicks, John Ankcorn, Myron King, PUBLICATIONS Shuotao Xu, Arvind. 2015"BlueDBM: An Appliance for Big Data Analytics," International Symposium on Computer Architecture

> Sang Woo Jun. Ming Liu, Kermin Fleming, Arvind. 2014 "Scalable Multi-Access Flash Store for Big Data Analytics," International Symposium on Field-Programmable Gate Arrays

> Sang Woo Jun, Kermin Fleming, Michael Adler, Joel Emer. 2012"ZIP-IO: Architecture for Application-Specific Compression of Big Data," International Conference on Field Programmable Technology

> Mun-Hye Jang, Ok-Kyoon Ha, Sang-Woo Jun, Yong-Kee Jun. 2009 "A Tool for Detecting First Races in OpenMP Programs," International Conference on Parallel Computing Technologies