New York, NY 10025

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Research Interests	Operating Systems, Mobile Computing, Device Drivers, Virtualization, Embedded Systems	
Education	Columbia University , New York, NY Doctor of Philosophy (Ph.D.) in Computer Science (Systems) Dissertation/Thesis: Multi-Mobile Computing Advisor: Professor Jason Nieh	Aug 2012 – May 2020
	Columbia University, New York, NY	
	Master of Philosophy (M.Phil.) in Computer Science Master of Science (M.S.) in Computer Science	$\begin{array}{l} {\rm Aug} \ 2012 - {\rm May} \ 2015 \\ {\rm Aug} \ 2012 - {\rm Oct} \ 2013 \end{array}$
	Yale University, New Haven, CT Master of Science (M.S.) in Computer Science	Aug 2011 – May 2012
	University of Michigan , Ann Arbor, MI Bachelor of Science (B.S.E.) in Computer Engineering Bachelor of Science (B.S.E.) in Computer Science Engineering Minors: Mathematics, Physics	Aug 2004 – Apr 2008
Awards	University Graduate Ph.D./Research Fellowship Dean's List, University of Michigan University Honors, University of Michigan	2012 – 2020 Fall 2007, Winter 2008 Fall 2007
Professional Experience	Columbia University Graduate Researcher	New York, NY 2012 – 2020
	Participated in building Cider/Cycada (Android kernel to support running native iOS apps)Building a mobile device sharing framework	
	• Integrating multiple mobile systems to provide a more capable one	
	VMware Inc. Software Engineer II	Palo Alto, CA Sept 2008 – Apr 2011
	• Worked on VMware Operating System (ESX) kernel and device driver development	
	Assigned as Networking developer lead for ESX 4.0 Update 3 releaseAnalyzed core dumps and code to root cause and fix various kernel and device driver bugs	
Teaching Experience	Columbia University	New York, NY
	Teaching Assistant, Operating Systems (COMS W4118)	Sept $2012 - Dec 2012$
	Modified Android kernel source used by over 150 studentsPorted Android emulator to newer kernel branch to make it buildable for both emulator and device	
	 Nodified kernel to allow setting orientation and getting GPS coor 	
Selected Publications	N. AlDuaij, J. Nieh. "Tap: An App Framework for Dynamically Composable Mobile Systems." Proceedings of the 19th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys 2021), Virtual. June 2021	
	N. AlDuaij, A. Van't Hof, J. Nieh. "Heterogeneous Multi-Mobile Computing." Proceedings of the 17th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys 2019), Seoul, South Korea. June 2019	
	J. Andrus, A. Van't Hof, N. AlDuaij, C. Dall, N. Viennot, J. Nieh. "Cider: Native Execution of iOS Apps on Android." <i>Proceedings of the 19th International Conference on Architectural Support for Programming</i> <i>Languages and Operating Systems (ASPLOS 2014)</i> , Salt Lake City, UT, USA. March 2014	
Skills	Programming: C, C ⁺⁺ , Java, Assembly, PHP, HTML, Perl, Python, SQL, Matlab, sh, IAT _E X Platforms: UNIX, Linux, BSD, macOS, iOS, Android, VMware ESX, Microsoft Windows	