WALTER CHANG

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Education	Doctor of Philosophy in Computer Science The University of Texas at Austin	August 2010 Austin, TX
	Bachelor of Arts in Computer Science Cornell University	May 2002 Ithaca, NY
Skills	 Languages (Computer): Java, C++, C, JavaScript, Standard ML, OCaml, Se XML, LAT_EX Languages (Human): English, Mandarin Chinese (conversational) Technical Background: Compilers, Program Analysis, Security, Software Tes Operating Systems: Linux, Windows, Mac OS X 	cheme, Lisp, HTML,
Experience	Software Engineer Google, Inc Designed and implemented systems and processes for internal infrastructure info	2010-present Mountain View, CA ormation security.
	Research Assistant2002–2010The University of Texas at AustinAustin, TXDesigned and implemented a system that enforces powerful user-specified security policies by automatically finding and containing possible violations. Designed and implemented an automated software testing system that uses user-provided guidance to automatically generate test inputs that stress high-priority or buggy sections of code. Advised by Prof. Calvin Lin.	
	Teaching Assistant2004The University of Texas at AustinAustin, TXOverhauled and revamped programming assignments, implemented automated testing and gradingsoftware for class projects, and rewrote and enhanced class projects. Led discussion sections, heldoffice hours, and graded for CS315H, Honors Algorithms and Data Structures. Won annual departmental TA Excellence Award.	
	Developer (Intern) IBM Server Group Developed firmware update utility for the Hardware Management Console for II	2002 Endicott, NY BM pSeries servers.
	Developer (Intern) IBM Almaden Research Center Designed and developed a prototype digital media set-top box and server.	2001 Almaden, CA
	Research Assistant Cornell University Founded the Cornell Autonomous Underwater Vehicle team. Designed, built, a embedded computer as part of a fully autonomous robotic submarine. Worked w work Research Group, developing software for automatic network topology disco	1999–2002 Ithaca, NY and programmed an with the Cornell Net- overy and mapping.
PUBLICATIONS	Efficient and Extensible Security Enforcement Using Dynamic Data Flow Analysis, with Brandon Streiff and Calvin Lin. In Proceedings of the 15th ACM Conference on Computer and Communication Security (CCS 2008) Improving Directed Test Case Generation with Static Analysis and Automated Boundary Condition Testing, with Calvin Lin. In submission.	

Securing Legacy C Applications Using Dynamic Data Flow Analysis, with Steve Cook and Calvin Lin. In Crosstalk - The Journal of Defense Software Engineering, September 2008.