

Josh Zimmerman

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Education	Carnegie Mellon University , School of Computer Science B.S. in Computer Science with University Honors Cumulative GPA: 3.82	May 2015
Notable coursework	15-410: <i>Operating System Design and Implementation</i> (A) Wrote fully preemptive, multithreaded kernel; thread library; bootloader. 15-418: <i>Parallel Computer Architecture and Programming</i> (B) Wrote and optimized parallel code. Implemented lockless algorithms on the RMC memory model. 18-487: <i>Intro. to Computer & Network Security & Applied Crypto.</i> (A) Performed binary exploitation, cryptographic attacks, and web exploitation.	
Experience	Google: Software Engineering Intern <ul style="list-style-type: none">• Worked on hardware key storage support for end-to-end, Google's OpenPGP Chrome extension (code.google.com/p/end-to-end/)• Participated in a successful penetration testing exercise Google: Site Reliability Engineering Intern <ul style="list-style-type: none">• Improved reliability of a program that garbage collects old files• Increased accessibility of a tool used to analyze monitoring files Khan Academy: Software Engineering Intern <ul style="list-style-type: none">• Simplified A/B testing for changes in certain key metrics• Implemented part of a collaborative filtering video recommender• Wrote a script to monitor rate of bug reports (git.io/dweXRw) 15-410: Operating System Design and Implementation: TA <ul style="list-style-type: none">• Graded student work• Held office hours and wrote exam questions 15-131 Great Practical Ideas for Computer Scientists: Instructor <ul style="list-style-type: none">• Led a course that teaches students topics like UNIX and debugging• Wrote exercises and exam questions, organized TAs to create same 15-122 Principles of Imperative Computation: TA <ul style="list-style-type: none">• Composed handouts for every recitation that are now used by all TAs• Taught two recitation sessions per week• Answered student questions and graded student work	Summer 2014 Summer 2013 Summer 2012 Spring 2015 Fall 2013 Fall 2014 Fall 2012 Spring 2013
Languages	Python, C, bash, x86 asm, C++, SML, L ^A T _E X, JavaScript, Java, MIPS asm	
Tools	vim, git, Perforce, Mercurial, svn, Eclipse, Logisim	
Honors	Dean's List: F11, S12, F12, S13, S14, F14 Honor Society of Phi Kappa Phi: Member and Student Vice President	