

# Spencer Kim

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<b>EDUCATION</b>	<b>University of Michigan</b> <i>Bachelors of Science in Engineering</i> • 'Major: Computer Science Engineering • GPA: <b>3.5/4.0</b> ○ Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Security, Databases, Mobile App Development, Cryptography	<i>Ann Arbor, MI</i> <i>Expected Apr '15</i>
<b>EXPERIENCE</b>	<b>CSE –Data Structures and Algorithms Teaching Staff</b> <i>College of Engineering, Computer Science &amp; Engineering Division</i> • Developed projects and discussion material teaching code design, algorithm analysis, data structure use, debugging and optimization	<i>Ann Arbor, MI</i> <i>09/2013-present</i>
	<b>SPQR – NoSSL Research Intern</b> <i>Security and Privacy Research Group Summer Internship</i> • Implemented Gnocchi's GroupKey Server, aiding offline private key storage • Improved Gnocchi's fluidity by finding HTTP interactions for a Python web server with a C++ Publisher app and a JavaScript Chrome extension • Tested OpenSSL source code for vulnerabilities in its Certificate Authority application	<i>Ann Arbor, MI</i> <i>05/2014-09/2014</i>
	<b>ACAL – Software Developer Intern</b> <i>Advanced Computer Architecture Laboratory Research</i> • Developed VastPlace with Prof Igor Markov, placing top 5 at the 2013 ICCAD Contest • Cut runtimes by 40% through parallelizing execution, reducing I/O times, and shrinking important bottlenecks • Increased testing efficiency by writing Perl automation scripts to run benchmarks, parse logs, profile results, and upload data, charts and graphs • Redesigned code from C to C++ to enable additional team contribution	<i>Ann Arbor, MI</i> <i>05/2013-01/2014</i>
	<b>ITS Support Services– Networking and Computer Consultant</b> <i>University of Michigan Information Technology Services</i> • Repaired PCs and Macs through troubleshooting wireless and hardware issues • Increased site usage by assisting over 600 users with desktop and printer tech	<i>Ann Arbor, MI</i> <i>10/2012-05/2014</i>
<b>PROJECTS</b>	<u>Gnocchi</u> : Alternative protocol to SSL which stores keys offline, away from servers <u>Untrusted</u> : Educational game meant to teach users to avoid logging into untrusted computers, created at Google's 24 Hours of Good Hackathon <u>TriviaGameChallenge</u> : Python program used by Quiz Bowl players to memorize facts <u>Time Logger</u> (WIP): Android app used to show apps a user spends the most time on <u>De-Stress Animals</u> (WIP): Android app which displays cute animals to relieve stress	
<b>ADDITIONAL</b>	<u>Microsoft College Code Challenge</u> : 1 <sup>st</sup> place in Fall '14 at University of Michigan <u>Michigan League of Legends</u> : Founder; organized tournaments and events <u>Sinaboro</u> : Longtime performer of traditional Korean music for over 10 years <u>Scholarships</u> : H. H. Rackham Undergraduate Scholarship <u>Enjoys</u> : Riichi Mahjong, Ultimate Frisbee, strategic board games	