

## David Adrian

### Contact Information

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<b>Education</b>	<b>University of Michigan</b> , Ann Arbor, MI <i>Bachelors of Science in Engineering, Computer Science Engineering</i> <ul style="list-style-type: none"><li>• GPA: 3.47/4.00</li><li>• ACADEMIC MINOR: Mathematics</li></ul>	Class of 2014
<b>Research Experience</b>	<b>Research Assistant</b> , <i>under Professor J. Alex Halderman</i> www.zmap.io <ul style="list-style-type: none"><li>• Maintain ZMap, the Fast Internet Scanner.</li><li>• Building a search engine for ZMap scan datasets to facilitate broader access to Internet-wide measurement data in order to find, track, and patch security problems.</li></ul> <b>Whisper Project</b> , <i>under Professor Robert P. Dick</i> www.whispercomm.org <ul style="list-style-type: none"><li>• Developed an Android framework (MANES) for testing feasibility, routing protocols, and location profile systems of large-scale mobile ad-hoc networks.</li><li>• Built a user-friendly censorship-resistant communication Android application on top of MANES, called Shout.</li><li>• Managed and lead student software development teams.</li></ul>	2013 - Present  2011 - 2013
<b>Work Experience</b>	<b>Software Engineering Intern</b> , <i>Duo Security</i> www.duosecurity.com <ul style="list-style-type: none"><li>• Offered two-factor authentication-as-a-service, using mobile phones as the second authentication factor and push notifications for login approval.</li><li>• Grew various Python backend subsystems to support new features; handled all bugs, feature requests, and security considerations for the Duo Unix client.</li><li>• Wrote a patch for OpenSSH to securely allow third-party authentication plugins.</li></ul> <b>Network Technician</b> , <i>CAEN</i> <ul style="list-style-type: none"><li>• Maintained UM College of Engineering computer network, IP/DNS space, including deploying over 700 wireless access points.</li></ul>	2013  2011 - 2012
<b>Teaching Experience</b>	<b>Instructional Aide</b> , <i>EECS 280: Programming and Data Structures</i> <ul style="list-style-type: none"><li>• Lead a weekly discussion section where students work through example C++ coding problems in a collaborative setting.</li><li>• Hold weekly office hours to help students debug programming projects and understand concepts from lecture.</li></ul>	2013 - Present
<b>Leadership and Honors</b>	<b>Member Eta Kappa Nu (HKN)</b> , Beta Epsilon Chapter <b>AP Scholars Program Chair</b> , Michigan CSE Scholars	2013 - Present 2012
<b>Computer Skills</b>	<ul style="list-style-type: none"><li>• <b>Languages:</b> C, C++, Java, Python, Javascript, PHP, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS</li><li>• <b>Platforms/Frameworks:</b> Android, Unix, Node.js, Tornado/Cyclone/Twisted</li><li>• <b>Databases:</b> MySQL, SQLite, MongoDB, Redis, Voldemort, neo4j</li><li>• <b>Learning:</b> Haskell</li></ul>	