

## David Adrian

### Contact Information

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### Online Information

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<b>Education</b>	<b>University of Michigan</b> , Ann Arbor, MI <i>Masters of Science in Engineering, Computer Science</i>	Class of 2016
	<b>University of Michigan</b> , Ann Arbor, MI <i>Bachelors of Science in Engineering, Computer Science</i> <ul style="list-style-type: none"><li>• GPA: 3.52/4.00</li><li>• ACADEMIC MINOR: Mathematics</li></ul>	Class of 2014
<b>Publications</b>	<b>Zipper ZMap: Internet-Wide Scanning at 10 Gbps</b> David Adrian, Zakir Durumeric, Gulshan Singh and J. Alex Halderman 8th USENIX Workshop on Offensive Technologies (WOOT '14)	
<b>Research Experience</b>	<b>Research Assistant</b> , <i>under Professor J. Alex Halderman</i>	2013 - Present
	<ul style="list-style-type: none"><li>• Computer security and Internet measurement research, concentrating on taking a global view of network ecosystems to gain valuable and novel security insights.</li><li>• Created a tool to track the Heartbleed Vulnerability and subsequent patching across the entire Internet.</li><li>• Primary maintainer of ZMap, the Fast Internet Scanner.</li></ul>	
	<b>Whisper Project</b> , <i>under Professor Robert P. Dick</i>	2011 - 2013
	<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></ul>	
<b>Work Experience</b>	<b>Software Engineering Intern</b> , <i>Duo Security</i>	Summer 2013
	<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>Teaching Experience</b>	<b>Instructional Aide</b> , <i>EECS 280: Programming and Data Structures</i>	Fall 2013
	<b>Instructional Aide</b> , <i>EECS 281: Data Structures and Algorithms</i>	Winter 2014
	<ul style="list-style-type: none"><li>• Led weekly discussion section and held office hours twice per week.</li></ul>	
<b>Leadership and Honors</b>	<b>Eta Kappa Nu (HKN)</b> , <i>Beta Epsilon Chapter</i>	2013 - Present
	<ul style="list-style-type: none"><li>• Taught local high school and middle school students programming in Java and Android application development.</li></ul>	
<b>Computer Skills</b>	<b>Languages:</b> C, C++, Java, Python, Javascript, Go, PHP, L <sup>A</sup> T <sub>E</sub> X, HTML/CSS, Haskell	
	<b>Platforms/Frameworks:</b> Android, Unix API, Node.js, Tornado/Cyclone/Twisted, React, Parse, Unity3D, OpenGL, MATLAB	
	<b>Databases:</b> MySQL, MongoDB, Voldemort, Redis, neo4j	