

## David Adrian

### Contact Information

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### Online Information

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### Education

**University of Michigan**, Ann Arbor, MI Class of 2014  
*Bachelors of Science in Engineering, Computer Science Engineering*

- GPA: 3.47/4.00
- CONCENTRATION: Minor in Mathematics
- SIGNIFICANT COURSES: Operating Systems, Computer Security, Artificial Intelligence, Computer Architecture, Digital Logic Design, Computer Graphics, Game Programming, Linear and Abstract Algebra, Statistics, Coding Theory, Cryptography

### Work Experience

**Software Engineering Intern**, *Duo Security* 2013 - Present  
www.duosecurity.com

- Offered two-factor authentication as-a-service, using mobile phones as the second authentication factor and push notifications for login approval.
- Grew various Python backend subsystems to support new features, such as a web interface for the Accounts API.
- Handled all bugs and feature requests for Duo Unix, as well as managing security considerations.
- Wrote a patch for OpenSSH to securely allow third-party authentication plugins.

**Network Technician**, *CAEN* 2011 - 2012

- Maintained UM College of Engineering computer network and IP/DNS space, including deploying 700 wireless access points.
- Configure network hardware and managed switches (Cisco, Force10, Juniper)

### Research Experience

**Whisper Project**, *under Professor Robert P. Dick* 2011 - 2013  
www.whispercomm.org

- Developed an Android framework (MANES) for testing feasibility, routing protocols, and location profile systems of large-scale mobile ad-hoc networks.
- Built a user-friendly censorship-resistant communication Android application on top of MANES, called Shout.
- Managed and assisted other undergraduate students

**Research Assistant**, *under Professor J. Alex Halderman* 2013 - Present

- Contribute to various security-related research projects, such as Telex and ZMap, beginning Fall 2013.

### Leadership and Honors

**AP Scholars Program Chair**, Michigan CSE Scholars 2012

**Member Eta Kappa Nu (HKN)**, Beta Epsilon Chapter 2013 - Present

**Instructional Aide**, EECS 280: Programming and Data Structures 2013 - Present

### Computer Skills

- **Languages:** Java, C, C++, Python, Javascript, PHP, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS
- **Platforms/Frameworks:** Android, Unix, Node.js, Tornado/Cyclone/Twisted
- **Databases:** MySQL, SQLite, MongoDB, Redis, Voldemort, neo4j
- **Learning:** Haskell