

Michael A. Rushanan

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EDUCATION

Johns Hopkins University: Ph.D. Computer Science Expected May 2016
M.S. Computer Science [GPA: 3.83] Expected May 2013
M.S. Security Informatics [GPA: 3.74] Expected Dec 2013
University of Maryland Baltimore County: B.S. in Computer Science May 2009

EXPERIENCE

Research Assistant **Aug 2011-Present**

- Provided focused development and testing of Charm, a framework for rapidly prototyping cryptosystems. Co-authored, "Charm: A Framework for Rapidly Prototyping Cryptosystems," to appear in the Journal of Cryptographic Engineering.
- Designed and implemented the database abstraction and analysis framework for SSLPrint, a modular tool for crawling web and identifying OpenSSL versions.
- Frequently met and identified goals of SSLPrint; discussions included vectors for possible analysis, required modifications, and finally key points that should be covered in the conference deliverable.
- Collaborated with subject matter experts in the field of medical imaging and public health.
- Co-authored an abstract, "An Efficient Encryption Framework for Medical Images," in submission to SIIM 2013.
- Co-authored an abstract, "Initial Uptake of STI Partner Notification Website So They Can Know," in submission to ISSTD.

Teaching Assistant **January 2012-May 2013**

- Provided teaching support for: Database Systems, Modern Cryptography, and UI and Mobile Application Development.
- General responsibilities included: delivering detailed lectures; providing consistent office hours; expanding accessibility through online tools such as Piazza; grading assignments and exams; creating assignments, and; meeting with the course professor to gauge expectations and goals.
- Attended class frequently to facilitate a relationship with students.

Course Assistant **Aug 2010-May 2011**

- Provided course support for: Security and Privacy and Network Security.
- Managed consistent office hours, in addition to assignment grading and creation.

Research Program Analyst **May 2009-May 2011**

- Configured tooling, cross-platform support, and linked library modularity to libfenc.
- Assisted in application design of an iOS based secure medical record application.
- Developed platform-dependent installers and cryptographic encryption schemes for Charm.

Department of Defense **Nov 2003-Nov 2010**

- Managed a closed network infrastructure to facilitate staging and release of COTS software.
- Extended and provided in-house extensions to third-party software.
- Provided mentorship to three high school workstudies and one summer intern.

HOBBIES

Technical blogging, open source and non-profit development, and raspberry pi tinkering.

SKILLS

Experience with Java, Python, C++, C, SQL, HTML, JS, Linux, Windows, and OS X server/desktop administration.

AWARDS/HONORS

- President of Upsilon Pi Epsilon, JHU Chapter. Spring 2011-Present
- Awarded second place in the Innovate 4 Healthcare Challenge April 2012