

John J. Seymour, III

seymour1@umbc.edu
<https://github.com/seymour1/>

sites.google.com/site/jjseymour3
410-350-4877

RESEARCH INTERESTS: Machine Learning, Malware Analysis

WORK EXPERIENCE

ZeroFOX, Inc

Senior Data Scientist, September 2016 - Present

- Piloted ZeroFOX FoxThreats program for threat hunting on social media
- Interviewed and mentored new hires

Data Scientist, September 2015 - September 2016

- Led development of SNAP_R, a pen-testing tool using machine learning to automate generation of individually tailored phishing messages on social media (covered by The Atlantic and Forbes)
- Developed solution to detect money-flipping scam posts on Instagram (covered by BBC Tech)
- Created high-quality datasets for product offerings using Mechanical Turk/Amazon S3
- Conveyed complex ML concepts to press, conference attendees, and customers/potentials

University of Maryland, Baltimore County

Graduate Research Assistant, UMBC DREAM Lab, January 2014 - May 2015

- Created Bash Scripts and Cron jobs to scrape urlquery.net for links to websites redirecting to exploit kits.
- Integrated VirtualBox, Wireshark, Bash and Python scripts, and Suricata to intercept and record all traffic to exploit kit landing pages.
- Published multiple papers on Exploit Kit classification and overgeneralization in malware classification.

Graduate Teaching Assistant, August 2012 - December 2013

- Teaching Assistant for Network Security, Computer Security, Cryptography, Automata Theory, and Introduction to Object-Oriented Programming.
- Introduced students to Metasploit/Kali Linux and theoretical aspects of cybersecurity.

Graduate Research Assistant, UMBC Cyber Defense Lab, January 2012 - August 2013

- Designed, tested, deployed, and maintained the SecurityEmpire website and game.
- Administered Mercurial repository, managed Red Hat server with Apache HTTPD to host project, and developed server-side code using PHP and MySQL.

EDUCATION

University of Maryland, Baltimore County (UMBC)

Ph.D. in Computer Science (Expected Fall 2017)

For list of publications, see <https://sites.google.com/site/jjseymour3/publications>

Graduate GPA: 4.0/4.0

M.S. in Computer Science (Fall 2014)

Thesis Title: Quantum Classification of Malware

Presented at DEFCON23, Summer 2015

B.S. *cum laude* in Computer Science (Fall 2011)

B.S. *cum laude* in Mathematics (Fall 2011)

B.A. *cum laude* in Philosophy (Fall 2011)

Certificate of General Honors

Undergraduate GPA: 3.70/4.00