

# Andrew Mokotoff

## Local Address

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## Contact Information

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## EDUCATION:

**Worcester Polytechnic Institute (WPI)**, Worcester, MA

**Bachelor of Science, Computer Science Major, Mathematics Minor**, GPA 3.73, May 2017

**Related Coursework:** \*Artificial Intelligence, \*Advanced Algorithms, \*Advanced Computer Networks, \*Object-Oriented Analysis and Design, Operating Systems, \*Machine Learning, Systems Programming, Algorithms, Software Security Engineering, Software Engineering, Computer Networks, Webware, Object-Oriented Design Concepts, Discrete Mathematics (\* To be completed by May 2017)

## EXPERIENCE:

**J.P. Morgan Chase**, Cyber Security, Summer Technology Analyst, New York, NY, June 2016 – August 2016

Designed and created software to automate a function of the project management team in the technology division that generates accurate financial reporting. Led a team of eight interns to provide a solution for orchestration of the Attack Analysis team.

**PergeTown, Inc. (Self-Started Web Development Company)**, Co-Founder, Worcester MA, June 2015 – Present

Led a three-person team to create a vision, create a solution, and create a business model/plan. Served two clients for standard and mobile websites. Delegating development in accordance with my plan, costs, and timelines.

**Carbon Black**, Software Engineering Intern, Waltham, MA, May 2015 – August 2015

Removed a major vulnerability in the Linux version of Carbon Black by adding tamper protection to the sensor. Designed and implemented a cross-platform smoke test to allow engineers to verify if they unintentionally added bugs to Carbon Black.

**National Institute of Standards and Technology**, Physics Intern, Gaithersburg, MD, June 2012 – August 2013

Designed and constructed an electrical logic system that controlled valves based on specific pressures to maintain vacuum.

## SKILLS:

**Programming Languages:** Python, Java, C, C++, HTML, JavaScript, CSS, and Node JS.

**Other:** Git, Security, Linux Kernel Development, Algorithms, Virtual Machines, Vim, OSX, and LaTeX.

**Languages:** American Sign Language and English.

## PROJECTS:

**Project Management Automation Tool**, J.P. Morgan Chase, July 2016

Developed a Node.JS web application to automate financial data retrieval for the project management team in the Global Cybersecurity division, saving 0.3 FTE.

**Nessus Visualization (Javascript: D3 and Backbone)**, Worcester Polytechnic Institute, January 2016 – Present

Redesigned the visualization to support all versions of Tenable Nessus (a computer vulnerability scanner). Provided this tool to be used by a team at J.P. Morgan Chase and a security company in New England.

**Tamper Protection (Linux Kernel & C)**, Bit9 + Carbon Black, August 2015

Modified Linux kernel file hooks to block file modification, file deletion, directory creation, and directory deletion in a specific directory if not performed by a specific process by checking PID, the superblock, and the dentry of the file in question.

**Carbon Black Smoke Test (Python)**, Bit9 + Carbon Black, July 2015

Designed and implemented a cross-platform smoke test in Python that generates processes and binaries and verifies via TCP/IP to a NoSQL database for their existence and correct PID, UID, PPID, file events, network events, binaries, start time, and path.

## LEADERSHIP:

**President** (Previously Web Admin and Judicial Board), Fraternity of Phi Gamma Delta, WPI, March 2014 – Present

**Executive Risk Manager/Vice President of Finance**, Interfraternity Council, WPI, October 2014 – March 2015

## ACTIVITIES:

**Upsilon Pi Epsilon Computer Science Honor Society**, Worcester Polytechnic Institute, Worcester, MA, April 2016 – Present

**Association for Computing Machinery**, Worcester Polytechnic Institute, Worcester, MA, April 2016 – Present

**Order of Omega Honor Society**, Worcester Polytechnic Institute, Worcester, MA, November 2015 – Present

**Student Justice**, Campus Hearing Board, WPI, August 2014 – September 2015

## AWARDS:

**Phi Gamma Delta Academic Achievement Award**, Phi Gamma Delta, January 2015

**Charles O. Thompson Scholar**, WPI, April 2014

**Certificate of Meritorious Service**, State of Maryland, May 2013