Andrew Mokotoff

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EDUCATION:
Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science, Computer Science Major, GPA 3.75, Graduating May 2017

Related Coursework: Artificial Intelligence, *Advanced Algorithms, *Introduction to Data Science, *Databases 1, 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
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. Picked as team leader of five interns and led the team to creating a HipChat bot which leveraged internal and external APIs to automate data retrieval for security analysts in the incident response group.
PergeTown, Inc. (Self-Started Web Development Company), Co-Founder, Worcester MA, June 2015 – Present
Led a three-person team to start a company for a service market-place application that would provide college students with job postings for mowing lawns and shoveling snow. Then pivoted the start-up to software consulting and served two clients.
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: Java, Python, Node JS, C, JavaScript, React JS, SQL, and D3.JS.
Other: Git, Security, Algorithms, Unix Terminal, OSX, LaTeX, commercial WiFi optimization.
Languages: American Sign Language (native) and English.

PROJECTS:
Nessus Visualization (Javascript: React, D3, Node), Worcester Polytechnic Institute, January 2016 – Present
Collaborated with NIST and created a react.js application to visualize nessus vulnerability scans. The interface displays vulnerabilities in a dynamic treemap for scale and displays contextual info including means of exploit and community presence.
Project Management Automation Tool, J.P. Morgan Chase, July 2016
Designed and created a node.js application to automate the retrieval of financial reports for project management team in the global cyber security division. Cannot specify more information.
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 SQL 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
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, MA, January 2016 – 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
Attended Maryland Boys State, American Legion, July 2012