Jacob A Cohen

Computer Science | Cybersecurity | System Analytics | Data Science

contact

4300 Hartwick Road
Apt. 1246D
College Park, Maryland
20740
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(443) 903-0331
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jacobacohen@outlook.com
/in/jacobac/
/jacobacohen/
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Eligible for Top Secret/SCI Clearance

programming

Python, Java, C, R, Ruby, OCaml, Rust, Bash, Latex, & SQL

environments

Unix/Linux (Bash, Zsh), Windows, MacOS

tools

Git, Docker, VIM, JetBrains IDEs, Hadoop, Slurm, Wireshark, Elastic Stack, Geomatica Focus, ArcGIS

certifications

Cisco CCENT
CompTIA A+

coursework

Computer & Network Security
Applied Reverse Engineering
Cryptography
Computer Systems Architecture
Data Structures
Programming Language Technologies & Paradigms
Wireless Communication & Software-Defined Radio
Quantitative Methods
Remote Sensing
GIS

work experience

Army Research Laboratory - Supercomputing Center
2016–Present | Aberdeen Proving Grounds, Maryland
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Developed and implemented a variety of data collection components used for system data collection on High Performance Computing (HPC) systems. Solutions developed provide tracking of research application licenses and system/node resource usage data through use of Regular Expressions, Python, MySQL, Facebook's Osquery, the Elastic Stack, and more.

education

B.S. in Computer Science - Cybersecurity Concentration
2016–2020 (Anticipated Graduation: May 2020) | University of Maryland - College Park
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Minors: Advanced Cybersecurity Experience for Students (ACES) & Geographic Information Science (GIS)
Honors College & Scholars (Science, Technology, Society) Programs
GPA: 3.55

publications

Dwyer M., Hwang J., Shires A., **Cohen J.**, "Application of Comprehensive Data Analysis for Interactive, Hierarchical Views of HPC Workloads" In *2018 IEEE International Conference on Big Data (Big Data)* (pp. 3585-3589). IEEE.
—
Defined and implemented Extract, Transform, Load (ELT) data collection framework for use on High Performance Computing (HPC) systems. Framework incorporates use of Facebook's Osquery to harvest system data and the Elastic Stack to ship, transform, store and manipulate data at an HPC scale.

extracurriculars

2019 NSA Codebreakers Challenge Participant — Present
DNS Prefetching Research Project — 2019
Collaborated on techniques for web scraping the Alexa top 10,000 websites via Python's BeautifulSoup library to get usage statistics on implementation of DNS Prefetching.
Bitcamp Hackathon Participant — 17', 18', 19'
Coordinator/Volunteer - Terps 4 Change at A Wider Circle and TerpFarm — 2019-Present
Team Challenge Participant at Cyberskylines Competition — 2017

awards

Dean's List for Computer Science — Fall 16', 18' & Spring 18', 19'
DoD SMART Scholarship Awardee — Fall 2018–Present
Armed Forces Communications & Electronics Association Scholarship — 2016–Present