# Jacob A Cohen

# Computer Science | Data Engineering | System Analytics | Cybersecurity

#### contact

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**(**443) 903-0331

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Eligible for Top Secret/SCI Clearance

## programming

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

## 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: 3.56

# **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.

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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

NSA Codebreakers Challenge Participant

2019

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 DoD SMART Scholarship Awardee Fall 16', 18', 19' & Spring 18', 19' Fall 2018–Present

Armed Forces Communications & Electronics Association Scholarship

2016-Present