

# Michael Bailey

michaelbailey.co  
linkedin.com/in/cybermichael  
github.com/mike-bailey

Alexandria, Virginia  
(703) 282 4029  
mbaile18@gmu.edu  
github.com/srct

## Technical Experience

|   |                      |
|---|----------------------|
| Technical Intern – The Crypsis Group (Tysons)   | Summer 2016 - 2018   |
| Junior Security Engineer – The Crypsis Group    | March 2018 - Present |
| IT Consultant – NanoTech Computers (Alexandria) | Summer 2015 - 2018   |
| Consultant – Métier Defense Solutions (Dulles)  | Summer 2014          |
| - Mobile Security and Linux (Ubuntu and Debian) |                      |

## Education and Certification

|  |                |
|--|----------------|
| George Mason University – Information Technology               | 2015 - Present |
| - Mason Competitive Cyber President                            | 2016 - Present |
| - Student Run Computing and Technology Systems Administrator   | 2016 - Present |
| - Previous Mentor for 3 Frost Middle School CyberPatriot Teams | 2016           |
| Marshall Governor's STEM Academy                               |                |
| - Computer Systems A+, Network Administration                  | 2013 - 2015    |
| James Madison High School                                      |                |
| <b>Certified in...</b>   |                |
| - CompTIA A+   | 2015-Present   |
| - Microsoft Technology Associate                               | 2014-Present   |

## Hackathons and Cybersecurity Competitions

|  |           |
|--|-----------|
| - First Place Team - Virginia Cyber Cup @ Cyber Fusion 2018                      | 2018      |
| - CapitalOne GMU Wargame Winning Team  | 2017      |
| - GMU's Booz Allen CTF Winner  | 2017      |
| - HoyaHacks Hackathon "Best Embedded Hack"                                       | 2016      |
| - MakeCU Best Use of AWS, 2 <sup>nd</sup> in MedTech Hack                        | 2016      |
| - National Finalist Captain (1 of 12 in Nation) in CyberPatriot VII              | 2015      |
| - Finalist, HS and College Division Maryland Cyber Challenge                     | 2013-2015 |
| - State Champion Team, 2 <sup>nd</sup> in Region – CyberPatriot & Governor's Cup | 2014      |

## Recent Crypsis Projects

- Crypsis Slack Bots (all using Ruby)
  - o AWS Bot – Manages AWS account. Allows group to list running EC2 instances, spin up instances, read through the SQS feed, and list and download objects via Slack.
  - o Intel Bot – Offers GeoIP lookup (including any known threat intel on the IP), file hash lookup, CVE lookup, BTCexchange rate lookup, URL to screencap conversion, and more
- DFIR Automation (particular name under NDA)
  - o Ruby web interface that generates executables to collect key artifacts from computers, sends them to AWS S3, where they're distributed to a managed Docker cluster to be processed using various Python and compiled tools into plaintext logs for Splunk ingestion, then reuploaded to S3. I also maintain all related infrastructure including their AWS usage. I am solely responsible for the infrastructure, the processing code, and jointly responsible for the web interface.
- GRR Docker Provisioning and Proxying
  - o Integration into previous executable in which Google Rapid Response servers are provisioned per client and immediately made routable to one of three hosts, uses haproxy and Docker Remote API, enables the already existing executable to install the GRR agents onto the machines, forensic data backed up to AWS S3 automatically