Michael Bailey

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Technical Experience

Technical Intern – The Crypsis Group (Tysons)   2016 to Present
- Elaborated on in Recent Projects, automation with Ruby and AWS
- PHP and Javascript malware reverse engineering
- Gained an in-depth understanding of client-based services

IT Consultant – NanoTech Computers (Alexandria)   2015 to 2016
- The only tech at IT shop, specializing in Linux systems in-house and Mac/PC fixups
- Deployed VoIP systems across the network and a low-budget backup solution

Consultant (Internship) – Métier Defense Solutions (Dulles)   Summer 2014
- Mobile Device Security and Linux Systems Administration
- Reverse Engineering of Android packages to find vulnerabilities

Mason Competitive Cyber Security Club – President   2016 to Present
- Weekly meetings of up to 60 people to study practical, real world cybersecurity fundamentals
- Worked with the Office of Student Involvement to run events

Marshall Academy Cyber Security Club – President   2015
- Approximately 150 person organization I ran my senior year of high school, coordinating a club history peak of 150 members

Education and Certification

George Mason University   Class of 2019
- Mason Competitive Cyber President   2016 to Present
- VSE STEM Outreach   2013 to 2015
- Student Run Computing and Technology Systems Administrator   2015 to Present
- Mentor for 3 Frost Middle School CyberPatriot Teams   2016 to 2017

Marshall Governor's STEM Academy   2013 to 2015
- Academy STEM Ambassador
- Computer Systems A+, Network Administration

Certified in…   2010 to Present
- CompTIA A+, Microsoft Technology Associate

Awards and Achievements

- HoyaHacks Hackathon "Best Embedded Hack"   2016
- MakeCU Best Use of AWS, 2nd 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 to 2015
- 13th Place in CyberPatriot VI (Semifinalist) Nationally   2014
- VA Governor's Cyber Club 2014 Winning Team   2014
- State Champion Team, 2nd in Region – CyberPatriot   2014

Recent Projects

- Crypsis Slack Bots (all using Ruby)
  - AWS Bot –Allows group to list running EC2 instances, spin up instances, and list and download objects
  - Intel Bot – Offers GeoIP lookup (including any known threat intelligence on the IP), file hash lookup, CVE lookup, BTC exchange rate, URL to screencap conversion, etc. Was presented at Splunk .conf 2016.
- DFIR Automation (particular name under NDA)
  - Ruby web interface that generates executables to collect key DFIR artifacts from victim computers, sends them to AWS S3 (a dropbox-like service), where they're distributed to a managed cluster to be processed using various tools into plaintext logs for analysis, then re-uploaded to S3