Paul Walko

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EDUCATION	
Virginia Tech, GPA: 3.14 Pursuing Bachelor of Science Major: Computer Science Minor: Cyber Security Languages: C, Java, Python, Bash	Blacksburg, VA 2018
WORK EXPERIENCE	
Cybersecurity Engineering Intern Cisco Systems, Security & Trust Organization • Developed Linux security module anti-malware for IoT devices • Hardened Linux systems and kernels • Analyzed and prevented potential security bugs	May 2017 - Aug 2018 RTP, NC
Research Assistant – Hume Center at Virginia Tech Analyzed several TB of network flow data • Learned about issues with large data sets • Built connections between independent data sets	Aug 2017 - Dec 2017 Blacksburg, VA
Research Assistant – Hume Center at Virginia Tech Created portable, concealable Bluetooth pen-testing device • Intercepted data from keyboards, mice, and other BLE devices • Analyzed data using Wireshark and python to find patterns and vulnerabilities	Sep 2016 - May 2017 Blacksburg, VA
 S.W.A.T Technician Virginia Tech College of Engineering Assisted customers with software/OS installation Diagnosed installation and network issues 	Aug 2016 - May 2017 Blacksburg, VA
Summer Camp Instructor / Lead Instructor Lincoln Heritage Council, Boy Scouts of America • Taught & supervised at a boy scout summer camp area	Summer 2014, 2015 Clermont, KY

PROJECTS

Github: https://github.com/paulwalko

Eagle Scout, Troop 306

Virginia Tech Linux/Unix Users Group (VTLUUG) **Sysadmin**

2017, 2018

Blacksburg, VA

2013

FreeIPA/LDAP - Maintain accounts for email, shell access, and webserver

- **In process of infrastructure rebuild** Current plan: https://vtluug.org/wiki/Project_Bringing_Sexy_Back
 - Manage ansible playbok to automate VM deployment: https://github.com/vtluug/ansible
 - O Manage networking scripts for our network: https://github.com/vtluug/scripts
- **Organized funds** Obtained \$1300 for new servers and equipment, and oversaw purchasing additional components

Geospatial Related Projects

- https://tinyurl.com/lhcbsamap Overlay for boy scouts to find information specific to their location
- https://github.com/paulwalko/cccmap-dij Dijkstra's algorithm implementation for scout camp
- **Google Maps/OSM** Have contributed a lot to trails and any other errors I've found
- https://vtluug.org/files/2017/vtbuildings/ Information for all buildings on campus. Planning to extract information from pdf layouts to create floor plan overlay.
- **Refine US Forest Service boundary** Walk along boundary; record monument condition and a more precise location. Done with Outdoor Club at Virginia Tech (OCVT)