

Paul Walko

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EDUCATION

Virginia Tech

Bachelor of Science

Major: Computer Science

Minor: Cyber Security

Languages: C, Java, Python, Bash

Blacksburg, VA

December 2018

WORK EXPERIENCE

Systems Engineer

Solers, Inc

Jan 2019 - Present

Arlington, VA

- Docker based central logging service
- Created unified Ansible configuration for different environments
- Cluster environment testing/debugging
- Configured Jenkins to auto-configure test environment

Cybersecurity Engineering Intern

Cisco Systems, Security & Trust Organization

May 2017 - Aug 2018

RTP, NC

- Developed Linux security module anti-malware for IoT devices
- Hardened Linux systems and kernels

Research Assistant – Hume Center at Virginia Tech

Analyzed Netflow data, created BT pen-testing device

Sep 2016 - Dec 2017

Blacksburg, VA

- Learned about issues with large data sets
- Built connections between independent data sets
- Intercepted data from keyboards, mice, and other BLE devices
- Analyzed data using Wireshark and python to find patterns and vulnerabilities

S.W.A.T Technician

Virginia Tech College of Engineering

Aug 2016 - May 2017

Blacksburg, VA

- Assisted customers with general IT issues

Summer Camp Instructor / Lead Instructor

Lincoln Heritage Council, Boy Scouts of America

Summer 2014, 2015

Clermont, KY

- Taught & supervised at a boy scout summer camp area

PROJECTS

Github: <https://github.com/paulwalko>

Eagle Scout, Troop 306

2013

Virginia Tech Linux/Unix Users Group (VTLUUG)

Former Sysadmin

2016-Present

Blacksburg, VA

- **FreeIPA/LDAP** - Maintain accounts for email, shell access, and webserver
- **Dockerized all services** - Current plan: https://vtluug.org/wiki/Project_Bringing_Sexy_Back
 - o Created ansible playbok to automate VM deployment: <https://github.com/vtluug/ansible>
 - o Created networking scripts for our network: <https://github.com/vtluug/scripts>
 - VT's ECE dept also uses this to run their network
- **Organized funds** - Obtained \$1300 for new servers and equipment and oversaw purchasing additional components

Free/Open Software Contributions

- 2011-2015: Android mod testing and discussion, Helped test and provide feedback for new linux games
- 2013-now: Use and contribute to OpenStreetMap
- 2018-now: Funkwhale (music hosting service) – simple bugfixes
- 2019-now: Archiveteam: Help archive services before they shutdown (tumblr, google+, etc)