

# Paul Walko

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## EDUCATION

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### Virginia Tech

*Bachelor of Science in Computer Science; Minor in Cyber Security*

**Languages/Tools:** C, Python, Java, Bash, Git, Docker, Kubernetes, AWS, Jenkins

Blacksburg, VA

Aug. 2015 – Dec. 2018

## EXPERIENCE

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### DevOps Engineer

*Ozmo, Inc*

Aug. 2019 – Present

Blacksburg, VA

- Improved code reliability with Continuous Integration testing
- Built central monitoring stack with Grafana, ELK, Kafka, and helped ingest existing services alert on
- Helped build event-driven search service in AWS:  
<https://ozmo.com/insights/building-a-world-wide-real-time-search-service>

### Systems Engineer

*Solers, Inc*

Jan. – July 2019

Arlington, VA

- Worked with Docker Swarm and Ansible
- Deployed central logging solution for clustered environment

### Research Assistant - Analyzed Netflow data

*Hume Center at Virginia Tech*

Sep. 2016 – Dec. 2017

Blacksburg, VA

- Learned about issues with large data sets
- Intercepted data from keyboards, mice, and other BLE devices
- Created Bluetooth pen-testing device with Ubertooth One and worked with devs on IRC

### S.W.A.T Technician

*Virginia Tech College of Engineering*

Aug. 2016 – May. 2017

Blacksburg, VA

- Assisted customers with software/OS installation
- Diagnosed installation and network issues

## PROJECTS

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**GitHub:** [github.com/paulwalko](https://github.com/paulwalko)

**Virginia Tech Linux/Unix Users Group (VTLUUG) | [vtluug.org](https://vtluug.org), [github.com/vtluug](https://github.com/vtluug)** 2016 - Present

- **FreeIPA/LDAP:** Maintain accounts for email, shell access, and webserver.
- **Rebuilt Infrastructure:** Updated services to deploy with Ansible and run all services with Docker.
- **Organized funds:** Obtained \$1300 for new servers and equipment; oversaw purchasing additional components.

**Outdoor Club at Virginia Tech (OCVT) | [ocvt.club](https://ocvt.club), [github.com/ocvt](https://github.com/ocvt)** 2017 - Present

- **Dolabra:** Built backend API in Golang + front-end in plain HTML/JavaScript. Used Open-ID Connect for auth, Stripe for payments, and Docker for testing and deployment in AWS.
- **Appalachian Trail Maintenance:** Regularly clear trail of trees, brush, and clean shelters.

### Free/Open Software Contributions

- **2019 – Present:** Archive Team: Help archive Internet services and manage massive amounts of data.
- **2013 – Present:** Use and contribute to OpenStreetMap.
- **2011 – 2015:** Android mod testing/discussion; Helped test and provided feedback for new Linux Games.