

William Zhang

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Education

- 2018-2022 **University of Virginia**, B.S., Double Major in Computer Science and Electrical Engineering.
- 2014-2018 **Thomas Jefferson High School for Science and Technology**, 4.27 GPA.
- Accelerated Computer Science (Python)
 - AP Computer Science (Java)
 - Analog/Digital Electronics
 - Parallel Computing (C)
 - Artificial Intelligence (Python)

Experience

- 2018-Present **Distributed Systems Research Assistant**, *UVA Department of Computer Science*.
Assist Dr. Andrew Grimshaw in developing the Campus Compute Cooperative (CCC). Currently developing tools for modified job submission to Slurm.
- 2018-Present **Systems Engineer Intern**, *UVA Department of Computer Science*.
Support department research through Unix systems and resource management.
- 2018 **Intern**, *Cypress Consulting*.
Developed tools for Juniper Junos automation using lxml, Juniper pyEZ, vMX, vSRX, and KVM/QEMU.
- 2016-2018 **Student Systems Administrator**, *Fairfax County Public Schools*.
Managed school's mission-critical Linux systems and networking in the TJCSL (Computer Systems Lab) with a team of other student sysadmins.
- Led design and deployment of configuration management with Ansible
 - Assisted in completely restructuring virtualization infrastructure
 - Rebuilt HPC cluster management with Slurm
- 2017-2018 **Executive Committee Technology Specialist**, *TJ Student Government Association*, Alexandria, VA.
Redesigned website and coordinated with officers and other committee members to plan events.
- 2016-2018 **Webmaster and Photographer**, *TJ German Honor Society*, Alexandria, VA.
Led the complete redesign of the TJGHS website, worked on an interface for authoring announcements and approving service hours, and edited and published photos from various events.
- 2014-2017 **Computer Hardware Specialist**, *Reboot for Youth*, Fairfax, VA.
Refurbished and repaired computers to be donated to needy students and their families.

Languages

- English **Native**
- Chinese **Native speaker**
- German **B2, 4 years experience** *99th Percentile on AATG Level 4 National German Exam*

Skills

- Programming Python, Shell, Node.js, C, C++, Rust, Java Web HTML, CSS, JavaScript, Flask, Django
- Applications Libvirt, Nginx, DNS (BIND), DHCP (dhcpd), Kerberos, Ansible, Salt, Slurm Operating Linux, FreeBSD, Cisco IOS, Juniper Junos Systems
- Miscellaneous IT Support, Cybersecurity, Computer Hardware, Photography

Projects

- 2016-2018 **Public AMT Relay Research** *Project presented at IETF 101 in the MBONED PIM WG.*
- 2018 **TapIn** *Mifare Classic NFC authentication concept for Django created at HackTJ 2018. Won Best Web App.*
- 2017 **SSH FailLog** *Live heatmap of failed SSH login attempts based on GeoIP.*
- 2017 **Cryptoticker** *Cryptocurrency Market Ticker Alexa Skill, deployed via Zappa to AWS Lambda.*
- 2016 **CSConcept** *Design concept for a platform to share CS opportunities. Won school-wide design competition.*