

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*, Charlottesville, VA.
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*, Charlottesville, VA.
Support department research through Unix systems and resource management.
- 2018 **Intern**, *Cypress Consulting*, Arlington, VA.
Developed tools for Juniper Junos automation using lxml, Juniper pyEZ, vMX, vSRX, and KVM/QEMU.
- 2016-2018 **Student Systems Administrator**, *Fairfax County Public Schools*, Alexandria, VA.
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

Activities

- 2018-Present **Embedded Systems Team Member**, *UVA Solar Car*, Charlottesville, VA.
Currently helping develop CAN bus communication between the various car subsystems.
- 2018-Present **International Collegiate Programming Contest Competitor**, *ACM@UVA*, Charlottesville, VA.
- 2018-Present **Fellows Committee Member**, *Hereford Student Senate*, Charlottesville, VA.
Assist with Hereford Residential College's UVA faculty and alumni outreach efforts through event planning and organization.

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 Systems | Linux, FreeBSD, Cisco IOS, Juniper Junos |
| 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.*