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

Vocational

2018-Present	**Student Technician**, *UVA Batten School of Leadership and Public Policy ITS.*
2018	**Intern**, *Cypress Consulting.*

Developed tools for Juniper Junos automation using lxml, Juniper pyEZ, vMX, vSRX, and KVM/QEMU over the course of two months.

2016–2018	**Student Systems Administrator**, *Fairfax County Public Schools.*

Manage school mission-critical Linux systems and networking in the TJCSL (Computer Systems Lab)

- Led design and deployment of configuration management with Ansible
- Assisted in completely restructuring virtualization infrastructure
- Rebuilt HPC cluster management with Slurm

Volunteer

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.

2017–2018	**Photographer**, *TJ Media*, Alexandria, VA.

Took and edited photos of various school events to be published in the TJ yearbook.

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	**B1-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, BIND, 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**	*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	**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.*