

William Zhang

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Education

2014–2018 **Thomas Jefferson High School for Science and Technology**, Alexandria, VA, 4.20 GPA.

- Accelerated Computer Science (Python)
- AP Computer Science (Java)
- Analog/Digital Electronics
- Parallel Computing (C)
- Artificial Intelligence (Python)

Experience

Vocational

2015–Present **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 new workstation management with Ansible
- Assisted in completely restructuring virtualization infrastructure
- Rebuilt HPC cluster management with Slurm

Volunteer

2017–Present **Executive Committee Technology Specialist**, TJ Student Government Association, Alexandria, VA.

Redesigned website and coordinated with officers and other committee members to plan events.

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

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

2016–Present **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.

2016–2017 **Officer**, TJ PC(re)builders, Alexandria, VA.

Helped teach students about computer hardware and refurbished computers to be donated through Virginia STAR.

2014–2017 **Computer Hardware Specialist**, Reboot for Youth, Fairfax, VA.

Refurbished and repaired computers to be donated to needy students and their families.

2014–2016 **Computer Tech Assistants**, TJHSST, Alexandria, VA.

Maintained school technology; identified and either fixed or reported problems.

Languages

English **Native**

Chinese **Native speaker**

German **B1-B2, 3 years experience**

99th Percentile on AATG Level 3 National German Exam

Skills

Programming Python, Shell, Node.js, C, C++, Java

Web HTML, CSS, JavaScript, Jekyll, 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

Public AMT
Relay

Research into Automatic Multicast Tunneling (AMT) to promote the use of Multicast on the Internet.

TJ SGA

Responsive redesign of Student Government Association's website using Jekyll.

TJ GHS

Responsive redesign of German Honor Society's website using Django.

Cryptoticker

Cryptocurrency Market Ticker Alexa Skill, deployed via Zappa to AWS Lambda.

CSConcept

Design concept for a platform to share computer science opportunities. Won school-wide design competition.

TJSlackbot

Node.js Slack bot intended for TJ-related clubs.