

Jennings Zhang

BIOMEDICAL SCIENCES · COMPUTER SECURITY

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Education

Thomas S. Wootton High School

CUMULATIVE UNWEIGHTED GPA: 3.58. WEIGHTED (OUT OF 5): 4.40

Rockville, Maryland

Graduation date: May 2018

Math	AP BC Calculus (5), AP Statistics (in progress), Multi-variable calculus and Diff. Eq. (in progress)
Sciences	H. Physics, AP Chemistry (in progress), AP Biology (5), Anatomy and Physiology (in progress)
Social Studies	AP Government and Politics (5), AP Micro/Macroeconomics (5, 5)
Technology	Computer LAN Management – CISCO Network Engineering (in progress)
Programming 3	Algorithmic analysis, advanced data structures, multi-threading, networks programming, intro to C.

Additional Education

EdX MASSIVE OPEN ONLINE COURSES (MOOC)

Aug 2016	Becoming an Entrepreneur — Product formulation and market strategy
Mar 2017	DAT208x Introduction to Python for Data Science — numpy, matplotlib, pandas

MIT LaunchX

Microsoft

UNIVERSITY OF MARYLAND: DEPARTMENT OF FIRE PROTECTION ENGINEERING

Fall 2016	Introduction to Math and Physics through Fire Dynamics
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MONTGOMERY COLLEGE: DUAL ENROLLMENT

Fall 2017	Computer Security — CompTIA Security+
Spring 2018	Microbiology — Lab + lecture, focus on bacteriology and immunology (in progress)

CMSC 260

BIOL 210

Experience

aimHI

PRODUCT MANAGER

- Coordinated project scope within a mock start-up environment.
- Researched solutions for improving treatment of postural orthostatic tachycardia syndrome (POTS).
- Used Android Studio to create wireframes for a mobile medical app.

Food and Drug Administration

Summer 2016

The Johns Hopkins Hospital

SHADOW

- Shadowed under the guidance of Dr. Daniel B. Drachman and Dr. Andrea M. Corse.
- Assisted doctors with patient care and EMG nerve conduction studies.
- Experienced with patient interaction and treatment of neuromuscular disease.

Department of Neurology

Summer 2017

High School Extracurricular Activities

Debate Team — public forum

2014 - 2017

Competed in monthly "public forum" style debates: research and oral presentation.

Wootton Red Team — Website: <https://twlinux.github.io/>

2017 - 2018

Founder of after-school cyber-security club. Hosts weekly lessons on the topic of Linux software and penetration testing.

Research

Siemens Math and Science Competition

Regional Semifinalist

ENVIRONMENTAL SCIENCE

Summer 2015

- Performed *ab initio* density functional theory (DFT) calculations with ABINIT to calculate adsorption energies of select toxic gases onto the mono-layers silicene, black (alpha) phosphorene, and blue (beta) phosphorene (a theoretical allotrope).
- Evaluated the potential applications of new materials technology to resolving environmental issues such as air pollution by toxic gas remediation.

Technical Skills

Web Stack	Modern front-end technologies including HTML5, CSS3, ES6 JavaScript frameworks and unit testing.
GNU/Linux	System administration on Arch Linux, Ubuntu, and Fedora
Java	object oriented programming and concurrency
Other	git — source version control system, LaTeX — typesetting software distribution.