

# Jennings Zhang

BIOMEDICAL SCIENCES · COMPUTER SECURITY

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## Education

### Thomas S. Wootton High School

Rockville, Maryland

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

Graduation date: May 2018

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

## Additional Education

### EDX MASSIVE OPEN ONLINE COURSES (MOOC)

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

MIT LaunchX

Microsoft

### UNIVERSITY OF MARYLAND: DEPARTMENT OF FIRE PROTECTION ENGINEERING

Fall 2016	<b>Introduction to Math and Physics through Fire Dynamics</b>
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### MONTGOMERY COLLEGE: DUAL ENROLLMENT

Fall 2017	<b>Computer Security</b> — CompTIA Security+
Spring 2018	<b>Microbiology</b> — Lab + lecture, topics include bacteriology and immunology

CMSC 260

BIOL 210

## Experience

### aimHI

Food and Drug Administration

PRODUCT MANAGER

Summer 2016

Researched mobile solutions for improving treatment of postural orthostatic tachycardia syndrome (POTS).

### The Johns Hopkins Hospital

Outpatient Clinic

SHADOW

Summer 2017

Assistant to Dr. Daniel B. Drachman and Dr. Andrea M. Corse within the Department of Neurology.

## 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 monolayers 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

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