

Jennings Zhang

STUDENT WITH A PASSION FOR BIOMEDICAL SCIENCES, COMPUTER SECURITY, AND SOFTWARE ENGINEERING

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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

Math	AP BC Calculus (5), Multi-variable calculus and differential equations (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	MIT LaunchX
Mar 2017	DAT208x Introduction to Python for Data Science — numpy, matplotlib, pandas	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+	CMSC 260
Spring 2018	Microbiology — Lab + lecture, focus on bacteriology and immunology (in progress)	BIOL 210

Experience

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Food and Drug Administration

PRODUCT MANAGER

Summer 2016

- Coordinated project scope within a mock start-up environment.
- Used Android Studio to create wireframes for a mobile medical app to assist patients living with postural orthostatic tachycardia syndrome (POTS).

The Johns Hopkins Hospital

Department of Neurology

SHADOW

Summer 2017

- 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.

High School Extracurricular Activities

Musical Pit Orchestra — Trumpet

2014-2015

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 phosphore (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

GNU/Linux System administration on Arch Linux, Ubuntu, and Fedora

Web Stack HTML5, CSS3, ES6 JavaScript, npm, Express, Preact (3.5 KB lternative to Facebook's React.))

Git & Github source version control

Java object oriented programming and concurrency

LaTeX Professional-looking document composition

Open-source Projects

I develop web projects in my free time. Code is available on Github.

Mind Matter

[*jennydaman/mindmatter*](#)

- An educational Chrome extension. Description and prototype available from the Chrome Web Store.
- Front-end JavaScript technologies include Preact and Webpack.

Let's Talk!

[*twlinux/lets-talk*](#)

- Intentionally vulnerable website for beginners to learn about basic code injection vulnerabilities.
- Front-end designed with materialize-css and jQuery.
- Express and MySQL back-end supported by containers and docker-compose.
- Shared to reddit, more than 200 upvotes on /r/HowToHack and 9 stars on Github.

TWLinux

[*twlinux/twlinux.github.io*](#)

- Collection of concise guides about concepts regarding Linux and cyber-security.
- Hosted on Github pages, based on the jekyll theme daattali/beautiful-jekyll.
- Contributed several pull requests to upstream repository, related to CSS bugfixes, CSS customization, and use of Docker.