

Jennings Zhang

BIOMEDICAL SCIENCES · COMPUTER SECURITY

11124 Potomac Oaks Drive Rockville, MD 20850 USA

☎ +1 (240) 401-8226 | ✉ jenni_zh@protonmail.com | 🌐 <https://jennydaman.github.io>

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), 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

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**

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

aimHI

Food and Drug Administration

PRODUCT MANAGER

Summer 2016

- 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.

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 (beta) 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	Modern front-end technologies including HTML5, CSS3, ES6 JavaScript frameworks and unit testing.
Git & Github	source version control
Java	object oriented programming and concurrency
LaTeX	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.
- Started project to help myself to both learn about web development and to practice medical vocabulary.
- 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.
- Over 200 upvotes on /r/HowToHack and 12 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.