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*

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 neuromusclar disease.

High School Extracirricular 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 theoredical alleotrope).
- 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.
- More than 200 upvotes on Reddit 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.