

## JENNINGS ZHANG

**EDUCATION** **THOMAS SPRIGG WOOTTON HIGH SCHOOL** – expected year of graduation: 2018  
Cumulative unweighted GPA: 3.57. Weighted (out of 5): 4.36  
**Math:** AP BC Calculus (5), Multi-variable calculus (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)  
**Advanced Programming 3** - Algorithmic analysis, advanced data structures, multi-threading, networks programming, C programming.

---

**ADDITIONAL EDUCATION** **EDX MASSIVE OPEN ONLINE COURSES (MOOC)**  
MIT LaunchX: Becoming an Entrepreneur (Aug 2016)  
Microsoft: DAT208x Introduction to Python for Data Science  
numpy, matplotlib, pandas (Mar 2017)  
**UNIVERSITY OF MARYLAND: DEPARTMENT OF FIRE PROTECTION ENGINEERING**  
Introduction to Math and Physics through Fire Dynamics (Sep-Dec 2016)  
**MONTGOMERY COLLEGE: CMSC 260 – COMPUTER SECURITY**  
CompTIA Security+ | Dual Enrollment Fall 2017 semester (Fall 2017)

---

**EXPERIENCE** **FOOD AND DRUG ADMINISTRATION AIMHI INCUBATOR PROGRAM** (Summer 2016)  
*Product Manager*  
A month in a mock start-up environment. We designed a mobile medical Android application using the agile software development process and entrepreneurial strategies.  
**SHADOW AT THE JOHNS HOPKINS HOSPITAL** (Summer 2017)  
Department of Neurology, outpatient clinic. Shadow for [Dr. Daniel B. Drachman](#) and [Dr. Andrea M. Corse](#), both of whom specialize in treating neuromuscular diseases. Assisted doctors with patient care and EMG nerve studies.

---

**HIGH SCHOOL EXTRA-CIRRICULARS** **DEBATE TEAM** (2014-2017) – monthly public forum (PF) debates on controversial current events.  
Focus on extensive research and effective oral rhetoric.  
School Musical Orchestra Pit (2014-2015)  
Future Doctors of America (2016-2018)  
**LINUX SYSTEMS** (2017-2018)  
*Founder: club organization, research, website design, system administration*  
After-school club that teaches students about open source systems and software.  
Current focus is on penetration testing with Kali and Parrot Security Linux.  
<https://jennydaman.github.io/twlinux/>

---

**TECHNICAL SKILLS** **JAVA** – object oriented programming, concurrent programming  
**GNU/LINUX** – POSIX shells, system administration on Arch, Fedora, and Ubuntu  
**GIT & GITHUB** – source version control  
**LaTeX** – professional document composition  
**WEB DEVELOPMENT** – HTML5, CSS3, and JavaScript (ES6, asynchronous programming)

---

**RESEARCH AWARD** **2015 REGIONAL SIEMENS MATH AND SCIENCE COMPETITION SEMIFINALIST** – using the density functional theory to discover theoretical applications of nanotechnology to reducing air pollution.