

## 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.

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**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: DUAL ENROLMENT**  
**CMSC 260 – Computer Security:** CompTIA Security+ (Fall 2017)  
**BIOL 210 and BIOL 210L – Microbiology** (Spring 2018)

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**EXPERIENCE** **FOOD AND DRUG ADMINISTRATION AIMHI INCUBATOR PROGRAM** (Summer 2016)  
*Product Manager*  
Coordinated the development of a mobile medical Android application under the agile software development method in a mock start-up environment.  
**SHADOW AT THE JOHNS HOPKINS HOSPITAL** (Summer 2017)  
Department of Neurology, outpatient clinic. Shadow under [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 conduction studies.

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**HIGH SCHOOL EXTRA-CIRRICULARS** **DEBATE TEAM** (2014-2017) – monthly public forum (PF) debates: research and oral presentation.  
**WOOTTON RED TEAM** (Linux Systems Club) (2017-2018)  
*Founder: club leadership, research, website design, system administration*  
Advanced computer security and penetration testing. <https://twlinux.github.io/>

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**TECHNICAL SKILLS** **GNU/LINUX** – system administration on Arch, Fedora, and Ubuntu  
**WEB STACK** – HTML5, CSS3, ES6 JavaScript, jQuery, node.js + Express  
**GIT & GITHUB** – source version control  
**JAVA** – object oriented programming, concurrent programming  
**LaTeX** – professional document composition

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**RESEARCH AWARD** **2015 REGIONAL SIEMENS MATH AND SCIENCE COMPETITION SEMIFINALIST**  
*Ab initio* density functional theory (DFT) calculations concerning toxic gas remediation by graphene-like monolayers.