

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

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.

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

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, ES6 JavaScript

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