WILLIAM LIAO

Computer Science @ UMD — Freshman

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EDUCATION

University of Maryland, College Park

College Park, MD (Aug. 2020 - May. 2024)

- Bachelor of Science BS, Computer Science
- Banneker/Key (Full Ride) Scholarship Recipient
- Expected Completion: May 2024
- Relevant Coursework Currently Taking: Object Oriented Programming II, Calculus II; Exempted by Exam: Objected Oriented Programming I

Downingtown STEM Academy

Downingtown, PA (Aug. 2016 - Jun. 2020)

- International Baccalaureate Diploma, High School Diploma, 4.52/4.00
- Graduated Summa Cum Laude

EXPERIENCE

nth Solutions, LLC

Software Developer Intern

Exton, PA (Jan. 2019 - Jul. 2020)

- Developed a user-facing dashboard using Java and JavaFX that facilitates communication of data between an IMU(Accelerometer, Gyroscope, Magnetometer) module and a computer. Dashboard is also responsible for configuring the module for data collection and processing the recorded data.
- Implemented a JavaFX Graph / Media Player into the dashboard that enables the visualization of IMU motion data synchronized with recorded video of IMU module's movement.

Analytical Graphics, Inc.

Shadow Exton, PA (Jun. 2019)

- Participated in a 21 hour career practicum to learn about the structure and functions of a software company.
- Investigated corporate software development strategy for scalability and managing large codebases.

PROJECTS, ACTIVITIES, AND AWARDS

Spotted Lanternfly App

(Nov. 2018 - Jan. 2020)

- Developed an iOS mobile app in Swift for the PA Dept. of Agriculture that helps users manage Spotted Laternflies (Lycorma delicatula), an invasive species in Southeastern Pennsylvania.
- Presented and received recognition for app at the 103rd Pennsylvania Farm Show.

VEX Robotics (Jun. 2017 – May 2019)

- Programmed autonomous movement of constructed robot in C to navigate a game field and stack cones while reacting to unplanned stimuli.
- Integrated macros to optimize robot control and movement.
- Qualified for PA State Competition in all two (2) years of participation.

FBLA

- Demonstrated knowledge of Information Technology basics through an objective test. Concepts included fundamentals of computer hardware and software, internet communication, and networking concepts.
- Won 1st Place at State Level Competition (out of ~150 students).

Function Flyer

(Mar. 2017 – May 2017)

(Apr. 2018)

- Developed an educational mobile game for Android using Java and Android Studio that teaches users the fundamentals of graphing.
- Presented app functionality, design, and documentation to a panel of judges.
- Won 1st Place for Programming at CCIU Unit of PA Computer Fair (out of ~20 teams).

Additional Info.

Technical Skills Python, Java/JavaFX, JavaScript, Microsoft Office, Git, IATEX, Some HTML/CSS, C/C++, Swift

Languages Conversational Fluency in Chinese (Mandarin), Limited Proficiency in Spanish

Test Scores SAT: 1560 (Math: 800, EBRW: 760); AP Calculus AB: 5

Interests Machine Learning, Data Analytics, Consumer Electronics, Design, Computer Software, Stationary