

# Lincoln Doney

✉ lincolndoney@outlook.com 📞 +1(410)725-7306  
🏠 Lincoln Doney 🌐 @ldoney 🏠 lincolndoney.com



## EDUCATION

**University of Maryland, College Park**

**Aug 2020 - May 2024**

**B.S. Computer Engineering (Magna Cum Laude), Physics (Cum Laude), Mathematics (Cum Laude)**

- Total GPA: 3.95 on 4.0 scale. Major GPAs: 3.97 ENEE, 4.0 PHYS, 3.87 MATH
- College Park Scholars- Science and Global Change

**South River High School**

**Aug 2016 - May 2020**

**High School Diploma**

SAT score: 780 Math 720 English. Participated in the STEM Magnet Program, Computer Science & PLTW pathways.

## EXPERIENCE

**BlueHalo (Base 2 Engineering) - Software Engineering Intern**

**Aug 2020 - present**

*Annapolis Junction, Maryland*

Developing proprietary low-level software in C, bash, and python for hardware devices. Developing software for a distributed network of Unix based devices. Using flutter to create a UI to interface with the network. Writing testing frameworks in python, ruby, and rust. Writing a SQL webservice using go, javascript, and html/css with bootstrap.

**Department of Physics at UMD - Teaching Assistant**

**Jan 2023-present**

*College Park, Maryland*

PHYS401- Quantum Mechanics I. Graded student work, held exam review sessions, wrote solution manuals, held regular problem solving sessions. Course is the first exposure of quantum mechanics to physics students, and was therefore a high-stakes course.

PHYS402- Quantum Mechanics II. Grading student work, holding regular problem solving sessions, writing quizzes. This course is very rarely TA'd by undergraduate students, and is often the last course which is taken by most physics majors.

**Department of Materials Science & Engineering at UMD - Condensed Matter Researcher**

**Dec 2022-Sep 2023**

*College Park, Maryland*

Superconductivity Research with Professor Ichiro Takeuchi. Used unsupervised machine learning algorithm on FeSeTe compositional and functional data to analyze relationships between them. Constructed FeSeTe samples for further testing.

**National Institute for Nuclear Physics - High Energy Researcher**

**May 2023-Aug 2023**

*Cagliari, Italy*

CMS large-scale data analysis with Professor Pierluigi Bortignon. Investigated and implemented machine learning algorithms for signal/background classification of Higgs Boson to muon pair decay. Used Boosted Decision Trees, Deep Neural Networks, and Graph Neural Networks, on ROOT datasets, implemented in C++ and Python.

**Department of Computer Science at UMD - Teaching Assistant**

**Aug 2023-Dec 2023**

*College Park, Maryland*

CMSC106- Introduction to C programming for non-CS majors. Lead labs for students, graded and proctored exams, held office hours. Course is designed to be an introduction to programming for people with no prior experience, teaching concepts from variables to sorting algorithms in C.

## Achievements, Honors, Awards

- Angelo Bardasis Merit-Based Scholarship (2021, 2022, 2023, 2024)
- Franklin Wheatley Memorial Scholarship (2023)
- The Professor William M. MacDonald Scholarship in Physics (2022)
- George Corcoran Memorial Scholarship (2023)
- ECE Chairs Award (2024)

## ADDITIONAL

- Programming Languages (in order of skill): C, C++, Dart (Flutter), TypeScript/JavaScript, Python, Ruby, OCaml, Racket, Rust, C#, MATLAB, Golang, PHP, MIPS Assembly, Bash
- Language Skills: English (Native), Japanese (Conversational), Italian (Mild-Conversational), Mandarin (Beginner)
- Software & Operating Systems: Arch-Based Linux, Debian-Based Linux, Windows,  $\LaTeX$  Git, Office, Vim, ROOT
- Microfabrication Skills: Photolithography, etching, oxidation, sputtering, PPMS
- Hobbies: Skiing, rock climbing, hiking, cooking, collecting currencies, collecting antiques