Awards

- United States Physics Olympiad Semi-Finalist, Silver Medalist
- · Johns Hopkins Mathematics Tournament, 2nd place
- National and State AP Scholar (Most AP exams taken in all of Maryland (21))
- American Regional Math League, 7th place in the Nation
- Maryland It's Academic Competition, 1st place
- Montgomery Science Fair, 2nd place
- American Computer Science League (ACSL) All-Star Team

Work & Experience

· Software Engineering Intern, Coupang

Implemented autonomous scrapers to crawl competitor websites, expanding the product database by over 10x. Javascript/Node.js
Created website to facilitate easier hiring, doubling the hiring rate, HTML and CSS
Made a tool to help analyze spending habits of customers, Node.js and CSS

2014-2015

2015

2014

• Undergraduate Research, *Carnegie Mellon University*Next Generation Read Mappers for Ultra-Efficient DNA Sequencing Analysis Use dynamic programming to create a next generation DNA mapper up to 40x faster than current generation DNA mappers, programmed in C++

• Software Engineering Intern, *Baosteel Group Finance, Co., Ltd*Analyzed the efficiency of business intelligence tools such as IBM Cognos Programmed a user interface using Java, MySQL, and XML to access, read, write, and alter their financial database

Research Intern, National Cancer Institute, National Institutes of Health
Researched Bcl-2, an essential, ubiquitous protein, and implicated Bcl-2 in
mutagenesis (carcinogenesis) by demonstrating Bcl-2 mutations altered function.
Researched possible future cancer therapy using small molecule inhibition of Bcl-2
Lysine Dimethylation in the BH4 Domain of Bcl-2 and its Functional Significance,
Published in The Journal of Immunology

2012-2013

Present

2010-2014

Projects

- OneShotGG: A java app/website pair which uses machine learning, computer vision, Tesseract optical character recognition technology, and a live Firebase database to enhance and automate advanced calculations in League of Legends
- Carnegie Mellon Robotics Club: Currently working on Mobot project. The objective is to create and program a robot which can autonomously traverse a slalom type course in the least amount of time. Programmed in C++

Education

School of Computer Science Carnegie Mellon University, Pittsburgh, PA

Computer Science Major, Robotics and Machine Learning Minor

 Science, Mathematics, and Computer Science Magnet Program Montgomery Blair High School, Montgomery County, MD GPA: 3.94/4.0

ACT Composite Score: 36

Skills

- Java
- · Javascript/Node.js
- · C/C++
- Python
- · HTML/CSS
- . SML
- Object-Oriented Programming
- · Algorithms and Data Structures
- Functional Programming
- Machine Learning