

EDUCATION

University of Maryland, College Park

Aug. 2020 – May 2023

Bachelor of Science in Computer Science, Minor in Technology Entrepreneurship

College Park, MD

- GPA: 3.7
- Selected Coursework: Object Oriented Programming, Algorithms Design & Analysis, Data Structures, Discrete Mathematics, Introduction to Computer Systems, Organization of Programming Languages

EXPERIENCE

Undergraduate Research Assistant

Jan. 2021 – Present

FIRE: The First-Year Innovation & Research Experience; Simulating Particle Detection

College Park, MD

- Investigated performance of a novel particle physics detector for CMS experiment using simulated data.
- Collaborated with peers to complete research project; presented project results at an undergraduate research symposium in November 2021.
- Applied novel analysis techniques and graphed simulated data using C++ and Bash in a Linux environment to improve investigation of elementary particle detection.

Machine Learning Boot Camp

Jun. 2020 – Aug. 2020

University of Maryland, Baltimore County

Baltimore, MD

- Manipulated and visualized various sets of data using Pandas, NumPy, and Matplotlib on Google Colab
- Built and trained multi-layer neural networks with PyTorch to classify handwritten digits and various articles of clothing from MNIST datasets.
- Created a simple autoencoder to compress and reconstruct MNIST data

Project Assistant

Jun. 2019 – Aug. 2019

Johns Hopkins University

Baltimore, MD

- Collaborated with advisors to design and create a web application game for students to work with.
- Employed Git, Command Line, and Java to build the game “Light’s out.” Designed frontend UI using HTML/CSS and Javascript.

PROJECTS & ACTIVITIES

Pomodoro Telegram Bot | Python (NLTK), Telegram Bot API

- Developed a Telegram bot with message handlers to allow users to apply Pomodoro technique to their study sessions
- Implemented natural language processing with the Python Natural Language Toolkit library to distinguish phrases and categorize user messages into specified intents

Data Cloud Computing Society

Aug. 2021 – Present

University of Maryland, College Park

College Park, MD

- Refined data of movie statistics from IMDB and used Seaborn to visualize data for further analysis.
- Formulated data and applied various regressions to best predict IMDB ratings of movies.

TECHNICAL SKILLS

Languages: Python, Java, C, Ruby, HTML5/CSS3

Libraries: Pandas, NumPy, Matplotlib

Developer Tools: Git, Bash, Visual Studio Code, Eclipse, Microsoft Office