Adrian R. Archer

www.linkedin.com/in/adrian-archer1 | adrian.archer2004@hotmail.com | Baltimore, MD 21218

EDUCATION

Johns Hopkins University | Whiting School of Engineering *2022-Present*

Cumulative GPA: 3.70

Majors: Computer Science and Applied Mathematics-Statistics

Recognitions: Dean's List, Computer Science Departmental Honors

PROJECTS

Image Filters in C *Fall of 2022*

- Composed half a dozen filters (coloring, distortion, etc.) solving unique memory challenges.
- Utilized partner programming techniques for efficient development and debugging

Chess in C++ *Winter of 2022*

- Implemented effective object-oriented systems to create a gamespace with fast interaction.
- Developed with GitHub, seamlessly progressing to project completion days before needed.

Shortest Path Stree Navigator in Java *Spring of 2023*

- Programmed an efficient implementation of Djikstra's Algorithm to traverse city streets.
- Constructed a Sparse Graph implementation to bolster the usage of the searching algorithm.

CHALLENGES

Reconnaissance Chess Coding Competition *2023*

- Created a winning bot and presentation that clearly communicated strategy, implications for chess and adjacent applications, and programming techniques utilized.
- Explored multiple machine learning techniques for teaching games and decision making.

JHU Applied Physics Laboratory NETHACK Hackathon *2023*

- Conceptualized a futuristic framework for missile operations in the United States that leveraged ensemble methods, LLMs, and Neural Networks.
- Planned an advisory system with both logistical and offensive capabilities.

WORK EXPERIENCE

NASA's Center For Geospace Storms Intern *JHU Applied Physics Laboratory - 2023*

- Designing simulation visualization and analysis scripts in Python extensively using Numpy, Pandas, Matplotlib, and other data science libraries.
- Applying machine learning algorithms through libraries like scikit-learn.
- Founding the Strategic Games Club to study the computer science behind algorithms like AlphaGO and DeepBlue to garner a deeper understanding of games and machines.

SKILLS

- Advanced in Python, Java, C, and C++
- Experience in HTML, CSS, and JavaScript
- Created in IDE and terminal environments [Linux, EMACS, VSCode, IntelliJ, etc.]
- Fluency in English and Spanish, Studying Korean
- Two-Time High School National Speech & Debate Qualifier