

Adrian R. Archer

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EDUCATION

Johns Hopkins University | Whiting School of Engineering

2022-Present

Cumulative GPA: 3.70

Majors: Computer Science and Applied Mathematics-Statistics

Relevant Coursework: Data Structures, Calculus 3, Linear Algebra, Probability, Discrete Math

PROJECTS

Image Filters in C

Fall of 2022

- Composed several pointer applications for unique memory challenges corresponding to half a dozen filters (coloring, distortion, etc.).
- Utilized partner programming techniques to communicate effectively in development switching between analyzing and debugging to writing and formulating..

Chess in C++

Winter of 2022

- Implemented extensive and effective object-oriented systems to create an efficient and orderly gamespace with near-instantaneous generation and responsiveness.
- Developed with GitHub, seamlessly progressing to project completion days before needed.

Shortest Path Stree Navigator in Java

Spring of 2023

- Conceptualized an efficient implementation of Djikstra's Algorithm to traverse the databases with hundreds of city streets and university pathways.
- Constructed a Sparse Graph implementation to bolster the usage of the searching algorithm.

WORK EXPERIENCE

NASA's Center For Geospace Storms Intern

JHU Applied Physics Laboratory - 2023

- Designing simulation visualization and analysis scripts in Python making extensive use of Numpy, Pandas, Matplotlib, and other data science libraries
- Applying machine learning algorithms through libraries like scikit-learn and pytorch
- 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++
- Programming experience in HTML, CSS, and JavaScript
- Created in IDE and terminal environments [Linux, EMACS, VSCode, IntelliJ, etc.]
- Fluency in English and Spanish
- Leading people of various skill sets and backgrounds as a cohesive group

AWARDS AND RECOGNITIONS

- Johns Hopkins University Dean's List
- Computer Science Departmental Honors For Exceptional Academic Performance
- Two-Time High School National Speech & Debate Qualifier