

# Adrian R. Archer

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## EDUCATION

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*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

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*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 heuristics to communicate effectively in development.

*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 Street Navigator in Java*

*Spring of 2023*

- Conceptualized an efficient implementation of Dijkstra'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

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*NASA's Center For Geospace Storms Internship*

*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
- Founded 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

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- Proficient in Python, Java, C, and C++
- Programming experience in HTML, CSS, and JavaScript
- Worked in IDE and terminal environments [Linux, EMACS, VSCode, IntelliJ, etc.]
- Native Speaker of English and Spanish
- Leading people of various skill sets and backgrounds as a cohesive group

## AWARDS AND RECOGNITIONS

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