Ezra Silver-Isenstadt

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EDUCATION

The University of Maryland, College Park | College Park, MD

B.S. in Computer Science, B.M. in Music Composition, Minor in Philosophy | **GPA:** 3.86/4.0   **May 2026**

Banneker/Key Scholar: Awarded all-expenses merit scholarship to UMD; featured as model B/K student for new recipients.

Relevant Courses: Object-Oriented Programming I & II (Java), Introduction to Computer Systems (C), Organization of Programming Languages (OCaml, Rust), Discrete Structures, Algorithms

TECHNICAL SKILLS

Programming Languages: Java (Proficient), C (Proficient), JavaScript (Intermediate), OCaml (Beginner)

Tools: Git, Unix Command Line, Google Suite, VS Code, Eclipse

INTERNSHIP

NASA Goddard Space Flight Center Intern |

Satellite-Based Mapping of Global Environmental Change   **Summer 2020**

- Programmed in JavaScript using the Google Earth Engine cloud-computing platform and API
- Worked with mentors to create four user-friendly web applications, analyzing satellite data (including the Landsat series) to visualize climate change impacts
- Identified and displayed changes in highly affected global locations
- Created an application to analyze precipitation trends by province in Ghana and Benin
- Designed an intuitive UI that allows users to observe ice melt, hurricane disturbances, and droughts

PROJECTS

Document Manager (C) | **Academic Project**   **Winter 2024**

- Implemented the back end of a simple text editor along with a text-based user interface
- Parsed user input strings to identify commands and execute them
- Developed complex methods using basic pointer operations, including one to identify and replace all instances of a target string

Text-Based Wordle (Java) | **Personal Project**   **Winter 2024**

- Developed a Wordle-style game with a text-based user interface
- Designed a scoring algorithm to evaluate correct letters and positions using Java's StringBuffer class
- Used object-oriented programming principles to design modular code, separating user interaction from game logic

A Shell (C) | **Academic Project**   **Summer 2024**

- Created a Unix-like shell that executes commands, manages processes, and supports input/output redirection
- Implemented control structures including pipes, subshells, and command conjunctions (AND, OR), enhancing command flexibility
- Managed file descriptors, enabling user-specified input and output files

Other projects: A calendar application, personnel database modeling, a simulated video rental manager, and more

Other experience: Lead guitarist for Lyn Lapid on two national tours ('22-'23), President of Animals for Animals at the University of Maryland ('22-'24), Co-Lead of March For Our Lives, Howard County ('19-'20)