Ezra Silver-Isenstadt

ezrasilverisenstadt@gmail.com • (301) 974-9745 • linkedin.com/in/ezrasilverisenstadt • ezrasi.github.io

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: A full-ride merit scholarship to UMD. Featured as a model B/K student at event 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 **February 2024**

- Implemented the backend of a simple text editor along with a text-based user interface
- Parsed user input strings to identify commands and execute them
- Developed core functions using basic pointer operations to minimize reliance on library methods

Text-Based Wordle (Java) | Personal Project **January 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 **July 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)