

# LIAM WOODWARD

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## EDUCATION

### University of Pittsburgh Honors College

*B.S. Computer Science*  
*Minor in Mathematics*

Aug 2020 - Dec 2022

GPA: 4.0/4.0

Relevant Coursework: Intermediate Programming, Data Structures, Discrete Structures in CS,  
Calculus 2, Introduction to Theoretical Mathematics

### Carnegie Mellon University

*Student*

Jun 2019 - Aug 2019

GPA: 4.0/4.0

Relevant Coursework: Introduction to Programming and Computer Science,  
Differential and Integral Calculus

## PROJECTS

### Rustulator

GitHub: <https://git.io/JUsUv>

A basic scientific calculator that can be used in both the command line and as a web application. Supports arithmetic, trigonometric functions, common constants like  $\pi$  and  $e$ , and user defined variables.

*Tech: Rust, Elm, HTML/CSS*

### Notes

GitHub: <https://git.io/JUsUf>

A command line notes management application that allows users to create new notes with a title, description, and tags. Notes can be indexed by their tags or note ids. Notes can also be deleted or have any of their fields edited. This project also uses a GitHub Actions workflow to perform continuous integration and build release packages.

*Tech: Rust*

### DiCast

GitHub: <https://git.io/JUsUT>

A dice roller application with a web interface that allows users to create new die rolls, name them, and roll them. Supports rolling an arbitrary number of arbitrary die, adding or multiplying constants, and more.

*Tech: Rust, WebAssembly, HTML/CSS, Makefile*

### lios

GitHub: <https://git.io/JUsUk>

A custom 32-bit operating system made from scratch that features a custom bootloader, keyboard input, VGA output to the screen, an implementation of a subset of libc, a simple user shell, and memory allocation.

*Tech: C, Assembly, LLVM, Makefile, NASM, QEMU*

### alidiusk.github.io

GitHub: <https://git.io/JUsUU>

My personal website, built using the static site generator Zola and hosted on GitHub Pages. A GitHub Actions workflow automatically builds and deploys the website on a separate GitHub branch.

*Tech: HTML/CSS, Zola, GitHub Pages, GitHub Actions*

## SKILLS

Programming Languages (experienced):	Java, Rust, Python, Bash, HTML/CSS, C
Programming Languages (some experience):	C++, Haskell, OCaml, Racket/Scheme, Elm, SQL, Assembly
Technologies:	Git, GitHub, GitHub Actions, CD/CI, Linux, Unix, Vim, WebAssembly, Interpreters, Compilers, Operating Systems

## AWARDS

### Salutatorian

Graduated 2nd in my class at Thomas Jefferson High School.

Thomas Jefferson High School

June 2020

## ACTIVITIES

### Computer Science Club

*Member*

University of Pittsburgh

Aug 2020 - Current

### Panther Algo Trading

*Member*

University of Pittsburgh

Aug 2020 - Current