

## EDUCATION

Carnegie Mellon University

2018 - 2022

Major: Electrical and Computer Engineering. Minor: Game Design.

Relevant Course Work: Introduction to Computer Systems 18-213 , Principles of Imperative Computation 15-122, Fundamentals of Programming 15-112, Physics II for Engineering Students 33-142, Mathematical Foundations of Electrical Engineering 18-202

## SKILLS

Python, C, C#, Unity, JavaScript, HTML, CSS, Git, Blender, Spanish [advanced], Japanese [advanced]

## WORK HISTORY

Carnegie Mellon University Cognitive Development Lab | Research Apprenticeship

Summer 2020

Developed web-based app for education technology experiments with children. Deployed Unity project to web for remote data collection. Rebuilt personal website for lab supervisor with HTML, CSS, and JavaScript.

E Ink Corporation | Intern

Summer 2019

Developed an image processing application in Python using PyQt and QtDesigner. Programmed Python libraries for interacting with a robotic arm, a camera, and Arduino via the image app.

MIT Bioinstrumentation Lab | Intern

Summer 2017

Developed unit tests and front-end code in JavaScript for MICA, an educational project involving sensors used in classrooms.

## PROJECTS

HTTP Proxy Server

Spring 2020

Wrote web request parsing and socket management for Linux in C as a course project at CMU.

Malloc Implementation

Spring 2020

Developed custom segmented list malloc implementation in C as a course project at CMU.

Slope Crusher | CMU Game Creation Society Racing Video Game | Unreal

Spring 2020

Created emissive noise shaders and destruction blueprint for shatter able objects in level and audio management for pause menu. Download on Itch.io: <https://eaglelee.itch.io/slope-crusher>

Space Tanks | United Game Jam Entry | Unity

June 2020

Implemented a turn based 2 player shooter game where players control tanks on the moon. Created within 48 hours for game jam contest. Available to play on Itch.io: <https://poshon.itch.io/space-tanks>

"Slender" Remake | Horror Video Game | Unity

Summer 2019

Programmed enemy follow behavior, audio management and user interface. Designed horror level.

BEATDOWN – Python-based Music Video Game | PyGame

Fall 2018

For my final project in 15-112 Fundamentals of Programming, I created [BEATDOWN](#). I taught myself about Fourier transforms and wrote my own audio signal processing library from scratch.

**HOBBIES** Music Composition, Jazz Piano, Crochet, Origami, Cooking