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Matthew Mabrey

Portfolio Website: mattmabrey1.github.io

EDUCATION:

The College of New Jersey, Ewing NJ Anticipated May 2021, 4.0/4.0 GPA
Bachelors of Science, Computer Science

Rowan College at Burlington County, Mount Laurel NJ Summer 2019, 3.93/4.0 GPA
Associates of Science, Computer Science

***Notable Coursework*:** Object-oriented Programming & Data Abstraction, Machine & Assembly Language Programming, Calculus II & Analytic Geometry, Discrete Structures, Computer Architecture, Artificial Intelligence, Analysis of Algorithms, Fundamentals of Web Design

***Achievements*:** Dean's List, 2017-Present

Activities and Societies: Mu Alpha Theta Mathematics Honor Society and Game Design Club

SKILLS:

- **Strong with C++, C#, and Java. Proficient with Python and C.**
- **Firm grasp of many programming concepts.**
- **Proficient with HTML, CSS, and Javascript to build and design websites**
- **Strong with Microsoft Office Suite, Adobe Photoshop, and Unity Engine**

PROJECTS:

Arduino RepairMan — Global Game Jam Team Project Spring 2020

- Physical game created for Global Game Jam 2020 game design hackathon using an Arduino and several I/O devices where the player must decipher the instructions to solve puzzles before the time runs out and it "blows up"

Demolition Derby Game — Independent Video Game Project Summer 2019

- Ongoing independent 3D multiplayer video game project created in Unity Engine where one player's car is randomly given a transferrable bomb that they need to get rid of before it explodes and the last car alive wins.

Hangman Game — Course Final Project Spring 2019

- Assembly language "Hangman" game using Microsoft Macro Assembler(MASM) as final project for Machine & Assembly Language Programming course

Rabbit, Fox, Hunter Simulation — Course Final Project Spring 2019

- Final project for Object-oriented Programming & Data Abstraction course which simulates populations of rabbits, foxes, and hunters in a grid and demonstrates the effect different parameters for variables, such as initial population sizes, birth rates, death rates, hunger, etc, has on interconnected populations.

RESEARCH:

Device Security — Computer Science Undergraduate Research RCBC Fall 2018

- Researched security flaws in current mobile device technology personally focusing on comparing the malware and virus vulnerabilities of popular mobile operating systems and assessing the security options currently available to consumers