Gabriel TK Camacho

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Education

Fall 2019 - Spring 2023, GPA 3.55
Worcester Polytechnic Instutute, Worcester MA - *BS in Computer Science*

Software Projects

Major Qualifying Project - Web app simulation classroom interactions of students and teachers, working with other students to create a front end to render sprites, rooms and interactive UI.

Aimtrainer Web App - A demo utilizing MongoDB, Express, & NodeJS to have users practice mouse coordination and show highscores on a leaderboard.

TODO App - A demo using the PERN stack exploring React and relational database querying.

Personal Website - Designing a unique website which is also easy to navigate. Plans to update it with better accessibility, new design & development methods in mind.

Interactive Story App - Ongoing with music professor to build a React app with an unlockable story and incorporating audio elements

Space Themed Visual Novel - Contributed to storyline, programming, & audio of a visual novel using Renpy in Introduction to Game Design.

Catan Board Generator & Analysis - Generates balanced boards & keeps data on initial settlements. Analysis page offers graphs on success of initial placements. Part of a larger site for testing web development & design.

Godot Game Demo - Demo includes animated sprites & tilemaps. Allows for player and npc movement with collision handling.

QLearn Gridworld - Project during Introduction to AI. Teaching an agent to navigate a gridworld to find optimal solutions from starting location to a terminal state.

Work Experience

Summer 2022
Interactive Qualifying Project - Study abroad in Lyon, France. Worked with SINGA Lyon, an organization created to welcome migrants and refugees into France. Specifically, research in development for an alumni network for SINGA's Entrepreneurial Incubation program.

Summer 2020 & 2021
Southampton Meadow Club - Worked in restaurant & hotel. Gained knowledge in restaurant & hotel management through working with superiors.

Summer 2016
IT Intern at Southampton Town Hall - Worked on ArcGIS, inputting data for street intersections. Solved common technical issues in the office.

Other Experience

Music Technology & Production - Familiar with digital signal processing hardware and software. Constructed guitars & pedals. Studied music theory, technology, & production through college courses & independently.

Sports & Activities - Varsity Baseball (High School), Squash Club, Bowling Club, Counter Strike NACE Starleague, Guitar & Music Production.