Gabriel TK Camacho

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Education

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

Software Projects

Major Qualifying Project: Web app simulation classroom interactions of students and teachers, working with team members to render sprites, rooms, and interactive UI, as well as generating events.

Bowling Scorekeeper: React App deployed on Vercel connecting to MongoDB API which allows scoring and recording of bowling games.

Aimtrainer Web App: MongoDB, Express, & NodeJS stack allowing users to practice mouse coordination and show high scores on a leaderboard.

Squash Court Manager Web App: MERN stack application managing a queue for the three squash courts at WPI for Squash Club. The app will facilitate tournaments & calculate/track player ratings.

TODO App: A demo using the PERN stack exploring React and relational database queries.

Personal Website: Uniquely styled website portfolio which helps you learn about me.

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

Space-Themed Visual Novel: Contributed to the 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. The analysis page offers graphs on the success of initial placements.

Q-Learn Gridworld: Project during Introduction to AI. Teaching an agent to navigate a grid world 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 the 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.