

Garret Castro

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TECHNICAL SKILLS

Languages: Python, HTML, CSS, Javascript, Typescript, C++, Java

Frameworks/Libraries: React, Angular, Flask

PROJECTS

Minecraftle (Flask, Javascript)

- Contributed to the upkeep and enhancement of a browser game for over 600,000 players
- Fixed serious gameplay bugs, allowing win and loss conditions to be calculated as intended
- Resolved inconsistencies in the game's high contrast mode, facilitating play for colorblind users

UC Merced GE Badge Finder (React, Flask, REST API)

- Developed a web application that finds every UC Merced course with given GE badge criteria
- Utilized web scraping to collect course data and converted it into a REST API
- Eliminated the need for a 5 minute login/navigation, reducing the course identification process to seconds

Pokémon to Scale (React, REST API)

- Developed a web application that can display each pokémon proportionally by size
- Utilized PokéAPI for sprites and size data to demonstrate size differences

US Personality Map (Angular, REST API)

- Developed a web application that helps visualize the difference in personality traits between US states
- Utilized the data of a peer-reviewed national personality study to create a REST API
- Created a more versatile method of visualizing and contrasting personality differences

Music Inspiration Generator (Angular, Rendering API)

- Developed web application that automated a popular randomization-based musical component generation process
- Utilized VexFlow to render accurate musical notes, staves, and key signatures

AWARDS/CERTIFICATES

AP Scholar with Honor

Demonstrated exemplary college-level achievement through Advanced Placement Exam performance

CompTIA Security+ 601 Certified

Demonstrated expertise in securing IT systems, identifying and mitigating security threats, and implementing robust security measures to safeguard sensitive information

EDUCATION

Enrolled at University of California Merced, Merced, CA. (Second Year)

Bachelor of Science, Computer Science and Engineering - Dean's Honor List

Ripon High School, Ripon, CA

High School Diploma