# 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, GPA 3.632

**Ripon High School, Ripon, CA**

High School Diploma