

Jose Garcia-Esparza

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EDUCATION

University of California, Merced
B.S Computer Science and Engineering

Graduation: May **2021**
Cumulative GPA: **3.418**

Coursework: Data Structures, Algorithms, Object-Oriented Programming, Computer Vision

SKILLS

Languages: C++, JavaScript, HTML, CSS

Technologies/Libraries: Node.js, MongoDB, Express.js, EJS, jQuery, Bootstrap, Git

RELEVANT ENGINEERING EXPERIENCE

Full-Stack Developer

October 2019 - Present

Research Position, Professor Chi Yang Leung, UC Merced

- Currently working on a Computer Vision project which involves using Raspberry Pi's to collect data on students entering the Kolligian Library at UC Merced
- Using camera sensors and object detection, the Pi's will send JSON data to a MongoDB database
- Data collected will be accessible through a live website with User Authentication
- Being built using Node.js, Express.js, MongoDB, JavaScript, C++, HTML, CSS and Bootstrap

Assistant Web Designer

June 2018 – December 2018

Merced nAnomaterials Center for Energy and Sensing, UC Merced

- Changed Menu structure of UC Merced MACES' main website and added new content using HTML, CSS, and JavaScript DOM Manipulation
- Re-designed a total of 3 UC Merced MACES' websites to have better User Interface using HTML, CSS, Bootstrap, and jQuery

Computer Science Tutor

February 2018 – February 2020

Peer Assisted Learning Support, UC Merced

- Facilitated 100+ hours of tutoring in the courses of Data Structures (C++) and Object-Oriented Programming (JavaScript)
- Hosted review sessions for 15-30 students at a time to prepare for their exams

PERSONAL PROJECTS

- [Game of Life](#) – Web app recreation of mathematician John Conway's 'cellular automation.' The program uses cells of a grid and three rules to simulate evolution. Black cells are alive and white dead. Created using HTML, CSS and JavaScript
- [Tic-tac-toe](#) – Web app of famous turn-based game. Optional AI button will have the user face off against an AI. Created using HTML, CSS, and jQuery
- [Calculator](#) – Web app calculator that supports elementary arithmetic and trigonometric functions. Created using HTML, CSS and JavaScript

AWARDS

Hackathon, **1st Place Winner**
Celebrate Hmong, Fresno, CA

December 29, 2019

Our [product](#) was an interactive map of the Fresno fairground which gave detailed information about vendors, booths, and special events. Users can also toggle filters such as food, clothing, etc., which the map will then highlight booths associated with said filter. Our team was awarded \$350 for this web-based project created using HTML, CSS, Bootstrap and JavaScript.