

Jose Garcia-Esparza

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OBJECTIVE

Undergraduate senior seeking summer internship in the field of Data Science or related. Expected to return to academia Fall 2021 to pursue a master's degree in Statistics.

EDUCATION

University of California, Merced

B.S Computer Science and Engineering

Graduation: May **2021**

Cumulative GPA **3.474**, Major GPA **3.516**

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Computer Vision, Databases (IP), Artificial Intelligence (IP), Probability and Statistics, Modern Applied Statistics (IP)

SKILLS

Languages: C++, Python, R, SQL, JavaScript, HTML, CSS

Technologies/Libraries: Scikit-learn, Pandas, NumPy, OpenCV, jQuery, Bootstrap

RELEVANT EXPERIENCE

Data Science Intern

May 2020 – Present

Lawrence Livermore National Laboratory, Livermore CA

- Designed linear regression and random forest machine learning models to solve Lawrence Livermore's Data Science Summer Institute Challenge Problems (Scikit-learn)
- Created an algorithm which parses through 15,000 XML files in 20 seconds and extracts relevant data based off user input (Scikit-learn, Python)
- For the next few months I will be working on Natural Language Processing of Quantum Photodetector literature

Undergraduate Researcher

January 2020 – May 2020

Professor Chi Yang Leung, UC Merced

- Implemented an object tracking algorithm which used Raspberry Pi's and camera modules to collect data on students entering the Kolligian Library at UC Merced (Python, OpenCV)
- Broke down and extracted data to a website I managed (JavaScript, HTML, CSS, Bootstrap)

Computer Science Tutor

February 2018 – February 2020

Peer Assisted Learning Support, UC Merced

- Facilitated 150+ hours of tutoring in the courses of Data Structures, Object-Oriented Programming, and General Calculus (C++, JavaScript)
- Hosted review sessions for 15-30 students at a time to prepare for their exams

Front-End Web Designer

December 2019

Celebrate Hmong Hackathon, 1st place

- Designed a web-based interactive map of the Fresno fairgrounds which gave detailed information about vendors, booths, and special events (jQuery, HTML, Bootstrap)

WEB PROJECTS

- [Game of Life](#) – Recreation of John Conway's 'cellular automation.' (JavaScript, HTML, CSS)
- [Calculator](#) – Calculator which supports both Arithmetic and trigonometric problems
- [Tic-tac-toe](#) – Recreation of famous turn-based game (jQuery, HTML, Bootstrap)

HONORS

- Livermore Lab Foundation Undergraduate Scholarship March 2020
- Lawrence Livermore National Laboratory Computing Scholarship March 2020