

MARCO MERCADO

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EDUCATION

California State Polytechnic University Pomona

2021

Master of Science in Computer Science

GPA: 4.0/4.0

- Relevant Courses: Deep Learning, Software Engineering, and Advance Computer Architecture

University of California Riverside

2018

Bachelor of Science in Computational Mathematics

CSGPA 3.58/4.0

- Relevant Courses: Intermediate Data Structures & Algorithms, Database Management Systems, Operating System Design, Machine Learning & Data Mining, Design & Architecture of Computer Systems.
- Dean's List.

TECHNICAL STRENGTHS

Languages	C/C++, Python, JavaScript, SQL, PostGreSQL, HTML, CSS.
Software & Tools	Bootstrap, Git, Express, MongoDB, Heroku, Node.js, NPM, LaTeX, TensorFlow, EJS.
Other skills	Linux environment, Object Oriented programming.

EXPERIENCE

Research Assistant (Project lead)

Jun 2019 - Present

California State Polytechnic University, Pomona

Dr. Raheja

- Mobilized a group of undergraduate students to develop an autonomous weed detector and remover.
- Trained and compared Deep Learning Object Detection algorithms to detect various types of weeds.
- Collected images and label bounding boxes to create a well-robust data set for Object detection.

Research Assistant

Feb 2019 - Present

California State Polytechnic University, Pomona

Dr. Husain

- Mentor Undergraduate students during a REU on Big data approach to brainwave bio-metrics.
- Led and planned the collection of electroencephalogram (EEG) bio-metric data on humans.
- Improved the accuracy of the machine learning algorithm used in EEG classification.
- Developed the team's capabilities in data science and applied them to create new findings in brainwave Bio-metrics.

Undergraduate Research Assistant

April 2018 - Dec 2018

University of California, Riverside

Dr. Keogh

- Designed algorithms that compare different time series for similarities and output a visualization.
- Classified time series and predict unknown labels for a given time series using K-nearest Neighbor.
- Implemented time series anomaly algorithm to detect anomalies among a given set of time series.

PROJECTS

Yelp Camp JavaScript, Node.js, Express, EJS, NPM, MongoDB, HTML, CSS

August 2018

- Built a MEAN Stack Application similar to Yelp, but design to add, rate, comment, and Delete Campsites.
- Designed a database on MongoDB to store and retrieve all the information of the users and campsites.
- Implemented user authentication with password hashing using NPM passport for a secured Application.

Rshell C++, Bash Script

June 2017

- Created a UNIX shell like using the command pattern to capture the commands.
- Designed a tree to implement UNIX operators and to control the execution order of the commands.
- Implemented Unix features such as && , ll , () precedence, checking if a file or directory exist, and piping.

Airline Database Java, PostgreSQL

April 2018

- Designed a Database schema for an airline using ER diagrams to fulfill the requirements of the airline.
- Implemented queries for flight-search, and number of available seats for a given flight, and Book a Flight.
- Collaborated with a partner to implement the database, meet deadlines, and used git as a version control.