Joshua Gonzales

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Education and Skills

California State University, Monterey Bay **Jan 2021 - Dec 2023**

- Computer Science B.S., Software Engineering Concentration, 3.7 GPA
- (Completed) Object-Oriented Programming, Computer Architecture, Intro to Data Science, Software Design, Intro to Computer Networks, Operating Systems(linux/bash), Internet Programming, Advanced Machine Learning, Algorithms

Hartnell College **Jan 2019 - Dec 2020**

- (Completed) Intro to Programming, Discrete Math, Data Structures, General Ed

Languages and Tools

- C, C++, Python, HTML, CSS, JavaScript, Java, Linux/Bash, VMware (Ubuntu), SQL, TensorFlow, Sklearn, Docker, Git, Anaconda, Numpy, Pandas, Sklearn

Work Experience

Full Time Engineering Intern at MRSL Real-Time Systems Laboratory **Jun 2022 - Aug 2022**

- Developed a full stack web and android application to classify specified radio signals using a neural network
- Built upon open source App (RF Analyzer) , which takes signal input from a software defined radio and plots the signal accordingly on the android device

Teaching Assistant for an Introductory Data Science/Machine Learning Course at CSUMB **Dec 2021 - Jun 2022**

- Facilitated and aided a diverse group of students in their understanding of Data Science. Successfully analyzed and debugged code (python) written by students and provided constructive feedback
- Organized and lead tutoring sessions to promote learning and productivity

US Army Airborne Infantryman **Nov 2014 - Nov 2018**

- Accounted and Maintained over $3,000,000 worth of weaponry and equipment for a 100 man organization, between two continents, for over a year, with zero losses.
- Deployed to Baghdad, Iraq in 2017. Where I safely and efficiently lead teams in hazardous conditions.

Projects

Medical Procedure Detection **May 2023**

- Worked with a team of 3 and local company, Ottersoft, to develop custom neural network to classify wearable IMU data as medical procedures and predict the start time of each detected procedure
- Predicted start time for each procedure was well within 45 sec of actual procedure start time
- Achieved 94% accuracy classifying time series motion data with a recurrent neural network
- Goal was to reduce time emergency responders spend documenting the procedures they performed

'AI' Forms' Population **May 2023**

- Worked with the LATINAN organization to develop technology to allow immigrants to fill out immigration paperwork via a phone call using 3CX and python

Fitness Web App **May 2022**

- Built a fitness and nutrition website (Node.js) with HTML, CSS, and JavaScript that focuses on getting users to construct a personalized workout/nutrition plan
- SQL database with multiple tables used to store custom plans

Predicting Adoption of Pets Within Animal Shelters **Dec 2021**

- Conceptualized, researched, and programmed prediction model for animal adoption, using Decision Tree algorithm from the Python scikit-learn library
- Visualized and analyzed data with matplotlib, pandas, numpy, and seaborn
- Led project planning and supervised team of 2