ANDREW JARMIN

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EDUCATION

California State University, Los Angeles, CA **August 2020 – May 2023**
Bachelor of Science, Computer Science
GPA: 3.2
Member of Code Brew Coding Club

Relevant Courses: Data Structures, Object-Oriented Programming, Data Science and Machine Learning, Algorithms, Software Design, Advanced Machine & Deep Learning, Discrete Mathematics, Relational Databases, Trends in Web Development and Web Design, 3D Computer Game Programming, Operating Systems.

SKILLS

JavaScript, Java, Python, TensorFlow, SQL, Linux, MongoDB, HTML, CSS, C++, Unity, Docker, Node.js, FL Studio, Davinci Resolve

RELEVANT EXPERIENCE

Code Ninjas | Ontario, CA
Coding Instructor **July 2021 – Present**

- Instructed students on system design principles in game development such as object-oriented programming, data structures, algorithms, and event-based implementation.
- Developed fundamental programming language lessons for students, including JavaScript, SQL, and C++.
- Educating students on game development through Unity, utilizing C++ and event-based implementation.

Westfall Technik | Riverside, CA
Operations Intern **June 2022 – Aug 2022**

- Worked closely with an Operations Manager and gained insights into the company's operations and the process of data being inputted into their ERP system from their plastics injection molding machines.
- Developed Key Performance Indicator (KPIs) dashboards through Power BI from the company's ERP data including Utilization percentage, Overall Efficiencies, and Yield percentage from the number of parts per rejects.
- Presented charts displayed on the floor of the manufacturing site to show transparency of production efficiencies to stakeholders, customers, and employees.

RELEVANT PROJECTS

Dilution of Precision Automation
*Data Engineer Intern *Senior Design Project**, **The Aerospace Corporation** **August 2022 – May 2023**

- Coordinated with a group of colleagues from CSULA to develop a web application that automatically visualizes the Dilution of Precision (DOP) across the globe from different satellite constellations in real-time.
- Implemented an automated data pipeline process using Docker containers to manage and deploy a product, which was then presented to Aerospace stakeholders and developers.
- Extracted satellite data from API requests and transformed it from Two-Line Element (TLE) format into an Orbit File (ORB) format, a config file that the Satellite Orbit Analysis Program (SOAP) uses and accomplished concatenating 300+ lines of information using string manipulation techniques with Python.

YouTube Engagement Prediction Model
Advanced Machine & Deep Learning, **CSULA** **August 2022 – December 2022**

- Constructed a Random Forest Regression model, Linear SVC, and an ANN-R to predict the number of likes a YouTube video could receive from an array of features in a dataset.
- Manipulated the dataset of over 90,000 rows using NumPy and Pandas to fit the needs of our regression models, executed One-Hot Encoding on categorial information and pre-processed additional features.
- Utilizing sklearn validation metrics, we were able to evaluate Random Forest Regression being the best model to use for this specific dataset, achieving close to 88% r-squared accuracy and a MAE score of 39,000.