Jehu Zepeda-Silva

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Summary

Recent computer science graduate with a strong enthusiasm for solving complex problems and developing software solutions within the aerospace industry. Committed to ongoing learning and driven by a desire to contribute to technological advancements.

Education

University of California, Berkeley — Berkeley, CA
BA in Computer Science — *May 2024*

San Jose City College — San Jose, CA
AS in Mathematics — *May 2022*

Relevant Coursework: Great Ideas in Computer Architecture, Principles and Techniques of Data Science, Database Management Systems, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Computer Security.

Experience

General Manager — May 2018 – August 2023
Summit Store Inc. — *Los Gatos, CA*

- Developed and maintained a comprehensive online item record system, facilitating efficient scanning and checkout processes.
- Leveraged software tools to ensure up-to-date pricing aligned with profit margin goals, optimizing financial performance.
- Analyzed sales data to forecast demand and adjust inventory levels, reducing waste and improving stock availability.
- Implemented and maintained software solutions for troubleshooting and resolving register malfunctions, minimizing downtime and enhancing customer satisfaction.

Projects

AI Driven Pac-Man | *Python, NumPy* — Spring 2024

- Implemented Pac-Man using four AI techniques (state-space search, probabilistic inference, reinforcement learning, logical inference), improving Pac-Man's problem-solving efficiency by 10%.
- Improved game navigation and agent decision-making using search algorithms and reinforcement learning models (Value Iteration, Q-Learning, Approximate Q-Learning), resulting in a 2x increase in game completion rate.

Spam and Ham | *Python, Scikit-Learn, Matplotlib, NumPy* — Fall 2023

- Built and trained a logistic regression model to classify emails as spam or ham (non-spam).
- Created visualizations to identify key features to improve the accuracy of email classification.
- Achieved an overall accuracy of 90% in classifying emails.

CPU | *Logisim* — Summer 2023

- Developed a fully functioning pipelined single-cycle CPU.
- Read in Assembly instructions with the ability to work with saved input on 32-bit registers.

NGordNet | *Java* — Spring 2023

- Developed a web-based application designed to facilitate the exploration of the historical usage of English words.
- Employed Depth-First Search and Breadth-First Search to identify hyponyms and hypernyms of a large data set.

Technical Skills

Languages: Java, Python, C/C++, SQL
Libraries: Pandas, NumPy, Scikit-Learn, Matplotlib, PyTorch
Spoken Languages: English and Spanish