

JACOB ORTIZ

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EDUCATION

San Jose State University

August 2022 - May 2024

Master's, Computer Science

- Cloud Computing, Data Science & Advanced Machine Learning, Data Structures & Advanced Algorithms, Software Engineering & Design, Operating Systems, Parallel Processing

California State University - Monterey Bay

Bachelor's, Computer Science

PROFESSIONAL EXPERIENCE

US ARMY DEVCOM SC

Orlando, FL, USA

Software Engineer

May 2024 - Present

- Explored the applicability of Unreal Engine to create more robust military simulation behaviors.
- Utilized neural networks and deep learning techniques to improve agent behavior, environmental interactions, and scenario complexity in military simulations.

San Jose State University

San Jose, CA, USA

Graduate Student Researcher

August 2023 - May 2024

- Conducting research in opinion maximization, utilizing advanced Python programming to develop innovative algorithms and computational models for optimizing opinion dissemination strategies in online social networks.

Foresight Health Solutions

Monterey, CA, USA

Software Engineer

January 2021 - May 2021

- Led a role of 4 member team and developed a machine learning algorithm to help lower anxiety.
- Utilized Python and libraries like scikit-learn, Pandas, and TensorFlow for machine learning.
- Researched and designed surveys on anxiety assessment to effectively devise solutions by giving suggestions to the user.
- Created, analyzed, and manipulated data sets and improved the algorithm
- Documented results and presented them to general audiences.

PROJECTS & OUTSIDE EXPERIENCE

Personal Website

Frontend Developer

2023 - Present

- Developed a highly responsive and visually appealing portfolio website utilizing Next.JS and
- Bootstrap CSS, reflecting proficiency in front-end development and UI/UX design.
- Hosted on Vercel, demonstrating cloud-based deployment and continuous integration / continuous deployment (CI/CD) practices.
- [Link to project](#)

Predicting Stock Prices with Keras Neural Nets

Seaside, CA, USA

Software Engineer

September 2020 - December 2020

- Analyzed historical data of the Standard & Poor's 500 Index and developed a machine learning algorithm to predict prices.
- Improved accuracy by using natural language processing of news data text to predict prices.
- Reported findings in a Python Notebook with a step-by-step process on how the model works and researched improvements for future work.
- [Link to project](#)

SKILLS

Skills: Git, Python, Java, HTML/CSS, C/C++, Data Structures & Algorithms, JavaScript, Next.js, Pandas, React.js, Unreal Engine

Languages: Spanish, English