# JEROME BARRIENTOS

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## CAREER SUMMARY:

Recent Computer Engineering graduate with hands-on experience in full-stack development through academic and personal projects. Skilled in JavaScript, React, Node.js, Python, and SQL. Eager to contribute to modern, scalable web applications and grow as a tech professional interested in growing my skills and experience across a wide range of technologies.

## WORK EXPERIENCE:

California State University Fullerton
Research Assistant | May, 2022 - July 2022

- Assisted in collecting, cleaning, and analyzing large datasets for academic research projects
- Utilized Python libraries such as Pandas, NumPy, and Matplotlib for data manipulation and visualization.
- Applied machine learning models to uncover patterns and support research hypotheses.

Raytheon RTX Competition

Vision Team Member | October, 2024 - June, 2025

- Contributed to a drone vision team focused on real-time identification of ArUco markers for autonomous navigation.
- Integrated computer vision models using OpenCV and Python to detect and track ArUco markers from drone-mounted cameras.

IT Support Specialist/ E commerce/ Shopify | On site, Small Business
August, 2025 - October, 2025

- Provided technical support for hardware, software, and network issues to end-users.
- Assisted with troubleshooting and maintaining the company's eCommerce platform.
- Supported system updates, software installations, and website functionality.

## RELEVANT PROJECTS:

Fullstack Mobile App
Chat app

- Built a real-time chat app using Flutter and Firebase, featuring user authentication with Firebase Auth, live messaging with Cloud Firestore, and a responsive UI with custom message bubbles and timestamps.

Machine and Deep Learning
Automous Smart Drone

- Integrated computer vision models using OpenCV and Python to detect and track ArUco markers from drone-mounted cameras.

Embedded Systems
Light Traffic Controller

- Controls the sequence and timing of traffic lights at intersections to ensure safe and efficient movement of vehicles and pedestrians.

Electrical Circuits/Electrical Engineering
Sinusoidal Behavior of Linear RLC Circuits

- Observe the effects of the voltage drop for both capacitance and inductor

## EDUCATION:

May 2025 | California State University Fullerton
Bachelor of Science in Computer Engineering

## SKILLS:

- Front-end and back-end web development
- Embedded System and designing modeling methods using VHDL, Verilog, C, Assembly
- Web performance optimization
- Cloud AWS
- Machine learning and algorithm engineering
- Electrical Circuits