

CARTER ESPARZA

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Education

Loyola Marymount University

Bachelor of Science in Computer Science

Aug 2023 – May 2025

Westchester, CA

University of California, Santa Cruz

Bachelor of Science in Computer Science

Sep 2021 – Jun 2023

Santa Cruz, CA

Technical Skills

Languages: Python, JavaScript, C++, C#, SQL, R, HTML/CSS, Virtual Basic

Frameworks: Flask, Node.js, React.js, GraphQL

Developer Tools: VS Code, Terminal, Git, Postman, Linux, Jira

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch

Experience

AIMS360

Data Analyst

January 2024 – Present

Los Angeles, CA

- Managed over 1 million orders and 3.1 million products for the Yeezy program, ensuring data accuracy and operational efficiency across all stages from order processing to fulfillment.
- Designed and deployed new database features and process enhancements, ensuring industry-leading practices and improved operational efficiency for Los Angeles Apparel.
- Utilized advanced SQL, Excel, and PowerBI skills to promote concise and accurate information flow, supporting decision-making and enhancing data reliability across the team.
- Leveraged API endpoints and GraphQL queries to streamline data access, improving accuracy and responsiveness in data retrieval for Los Angeles Apparel's reporting and analytics needs.
- Constructed comprehensive PowerBI dashboards and Excel reports, translating complex data into actionable insights for management, resulting in data-driven strategies and improved operational outcomes.

US Standard Apparel

Data Analysis Intern

July 2023 – Present

Los Angeles, CA

- Engineered and automated Excel-based costing sheets, streamlining preproduction workflows and minimizing errors.
- Leveraged AIMS 360 to analyze crucial product data and support data-driven decisions.
- Innovated data entry automation, collaborating cross-functionally to enhance processes.
- Led data compilation for audit preparedness, ensuring integrity and compliance.

Projects

Standard Avionics | *Go, GraphQL, REACT, JavaScript, Python, InfluxDB*

October 2024

- Designing and developing a web-based ground control telemetry system for my senior thesis, enabling real-time sensor data integration (e.g., GPS) and communication via MAVLink protocols to support mission planning and monitoring of PX4 drones.
- Building and optimizing flight control algorithms, including waypoint navigation, while integrating embedded sensor software to improve autonomous drone performance for RainMaker, a local startup in El Segundo.

BrainRot: Video Generator | *Virtual Basic, Power Automate*

December 2023

- Engineered a full-stack web app to simplify content creating, achieving an 80% reduction in editing time for creators
- Constructed a Flask API server utilizing MoviePy library to edit Twitch videos into social media-ready formats
- Integrated Firebase for authentication and data storage, while designing a dynamic video feed with download capabilities

Relevant Coursework

- Data Structures
- Algorithms and Analysis
- Artificial Intelligence
- Web App Development
- Database Systems
- Logic and Computer Design