

Carlos Felipe

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EDUCATION

University of Florida

Bachelor of Science in Computer Science - College of Engineering

Gainesville, FL

Expected May 2026

Relevant Coursework

Data Structures, Software Engineering, Database Systems, Data Science, Intro to ML, Operating Systems, Natural Language Processing

EXPERIENCE

Data Analyst Intern

BFG International Corp

May 2024 – Aug 2024

Miami, FL

- Analyzed shipment and logistics data to optimize container (maritime) and air freight operations, improving route efficiency by 10%.
- Automated data entry and report generation using Python, reducing manual processing time by 30%.
- Utilized tools like Excel and SQL to analyze and visualize freight data, providing actionable insights to management.

PROJECTS

Bulldozer Price Regression | *Python, Pandas, scikit-learn, Matplotlib*

- Built a ML pipeline to predict auction prices of used bulldozers using 401K+ records from the Blue Book dataset.
- Performed EDA, feature engineering, and data cleaning to create a model-ready dataset.
- Trained and evaluated Linear, KNN, Decision Tree, and Random Forest models, achieving $R^2 = 0.91$ with Random Forest.
- Applied GridSearchCV for hyperparameter tuning and compared performance using R^2 , MAE, and MSE metrics.

EventSync | *Django, PostgreSQL, Tailwind, C++, HTML/CSS* | [GitHub](#)

- Designed and developed a full-stack web application for event hosting and management, allowing 200 users to create, browse, and purchase event access.
- Collaborated with a cross-functional team in an Agile environment, increasing team efficiency.
- Built a secure authentication system, a scalable database for 1000 events and users, and a real-time chat service.
- Integrated Stripe for secure payment processing, ensuring a seamless transaction experience.

Customer Segmentation in Retail | *Python, Pandas, Seaborn, scikit-learn*

- Predicted purchase likelihood using customer behavior data from the Online Retail dataset.
- Engineered recency, transaction count, revenue, and time-based features to improve model performance.
- Evaluated Logistic Regression and Random Forest, achieving 50% accuracy on a balanced dataset.
- Delivered insights on targeted discounts and promotion timing.

Fast-Track | *JavaScript, HTML/CSS* | [GitHub](#)

- Developed a route optimization web app for shortest-path queries across U.S. cities.
- Implemented Dijkstra's algorithm and a custom MinHeap class from scratch to efficiently calculate paths within a weighted graph.
- Integrated with a dynamic frontend visualization that displays and compares the results of Dijkstra and A* search algorithms.

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, SQL, HTML/CSS

Frameworks & Tools: Django, React, PostgreSQL, Git/GitHub, VS Code, JetBrains IDEs

Languages: Spanish (native), English (fluent)