

CARLOS FELIPE

📧 carlosf02 | 🌐 cjfelipe | 🌐 felipecarlos.net | ✉ cjfelipebazan@gmail.com | ☎ 754-265-8449

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

TECHNICAL SKILLS

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

Frameworks & Tools: React, Django, Vite, Tailwind CSS, PostgreSQL, Git/GitHub

Libraries: Pandas, Seaborn, Matplotlib, scikit-learn

Languages: Spanish (native), English (fluent)

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](#) | [Demo](#)

- 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.

Personal Portfolio | *React, TypeScript, Vite, Tailwind, GitHub Pages* | [GitHub](#)

- Built and deployed a responsive single-page portfolio showcasing projects, resume, and professional links.