

# Eric Fidalgo

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Software Engineer and Data Analyst building analytics systems for clients including Meta, NBA, and ESPN | Experienced in C++, Python, AWS, GCP, BigQuery, and SQL | Bilingual (English/Spanish)

## EDUCATION

### Florida State University

Tallahassee, FL

Bachelor of Science in Computer Science

May 2026

Cumulative GPA: 3.7/4.0

Academic Honors: President's List, Dean's List

Coursework: Data Structures & Algorithms II, Operating Systems, Artificial Intelligence, Programming Secure Parallel and Distributed Applications, Theory and Structure of Databases, Computer Networks and Cryptography

## SKILLS

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

Cloud & Platforms: AWS (Lambda, CloudFront), Google Cloud Platform, Linode, Linux

Developer Tools: Docker, JIRA, Gradle, PostMan, VMware, Git, Gitlab, GitHub

Frameworks & Libraries: Elastic (Kibana), Pandas, NumPy, Scikit-Learn, Matplotlib, Spring Boot

Languages: Native in English and Spanish

## INDUSTRY EXPERIENCE

🔗 YBVR | Python, Google BigQuery, Elastic (Kibana), Docker

May 2025 – Present

Data Engineering Intern → Data Engineering (Part-Time)

Madrid, Spain

- Redesigned the user tracking system for the Xtadium application, creating new performance metrics and refactoring the tracking code, enabling more comprehensive data collection
- Built an automated Python data pipeline to extract raw metrics using the Elastic API to parse raw JSON responses into Pandas DataFrames for deeper analysis
- Scaled the user analytics database to manage 1M+ rows on Google BigQuery for advanced metric tracking
- Compiled the analytics into executive reports and presentations for key stakeholders including Meta, NBA, FOX, ESPN, NASCAR, TNT, and UFC

🔗 Florida Biz Scraper | Python, AWS, BeautifulSoup

May 2024 – July 2024

Software Engineer (Freelance)

Tampa, FL

- Developed a Python-based web scraping software in collaboration with client, automating data from Florida's LLC database, processing over 100 companies per minute into Excel files
- Increased platform security by implementing 2FA authentication system using Amazon WorkMail and automated URL sanitation via AWS Lambda

## PROJECT EXPERIENCE

🔗 House Price Prediction Model | Python, Machine Learning, SQL

- Built a machine learning model using Pandas and Scikit-Learn to predict median house prices across 20,000+ districts in California with a Random Forest Regressor, achieving a mean absolute error (MAE) of \$32,000
- Conducted data preprocessing and visualization for feature selection, improving model accuracy by 15%
- Implemented the dataset in a SQL database, enabling efficient location-based filtering and price analysis, resulting in faster queries compared to traditional CSV lookups

🔗 Local Database with Hash Maps and Encryption | C++

- Designed a secure user authentication system by implementing a custom hash table with file storage and dynamic rehashing, enabling efficient management of over 10,000 user accounts
- Utilized libsodium library to implement Argon2id hashing, providing secure credential storage with resistance to brute-force attacks and enabling efficient password verification

## LEADERSHIP & RECOGNITION

Association for Computing Machinery (ACM) & AWS Cloud Club @ FSU – Active Member

2x Soccer State Champion (MVP 2021) | Interests: Water/Snow Skiing, PADI Certified, Dirt Bike Enthusiast