

Eric Fidalgo

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Data Engineer building analytics systems for clients including Meta, NBA, and ESPN | **AWS Solutions Architect**
experienced in C++, Python, 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

Involvement: Association for Computing Machinery (ACM) & AWS Cloud Club @ FSU

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 (EC2, Lambda, S3, VPC, RDS, IAM), Google Cloud Platform (BigQuery, Cloud Run)

Certifications: AWS Certified Solutions Architect – Associate (SAA), AWS Certified Cloud Practitioner (CCP)

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

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

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