Francisco Gonzalez

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SUMMARY

Software Developer and data enthusiast with a strong interest in energy markets and quantitative analysis. Skilled in building Python-based scripts for data processing, risk simulations, and trading strategy analytics. Excited to apply my data modeling and problem-solving expertise in a trading environment.

SKILLS

Frameworks: Django, Flask, FastAPI

Databases: PostgreSQL, MySQL, SQLite

Tools: Git, Swagger, VSCode, Thinkorswim

Other: API Development, Database Optimization

Programming: Python, SQL, JavaScript

EXPERIENCE

Python Developer – Contract
Outlier.AI   **Jun 2024 – Present, Remote**
- **An**alyzed large structured datasets in **Python** to validate AI-generated code outputs, ensuring **high-quality data feeds**.
- Provided technical insights for improving model-generated solutions, increasing usability by 20%.
- Analyzed structured datasets using **pandas** to validate AI-generated outputs and improve data.
- Collaborated with data engineers and stakeholders to optimize backend architectures, aligning with best practices for **scalable analytics**.
- Assisted in designing and testing backend workflows, ensuring efficient data processing and seamless integration with AI models.

Software Developer – Contract
Cupen Systems   **May 2021 – Jun 2024**
- Developed backend modules (Django, Flask, FastAPI) for 10+ client applications, focusing on **robust data pipelines** and **ETL tasks.**
- Integrated REST APIs for seamless data exchange between microservices, ensuring 99% uptime.
- **Cr**eated **database schemas** in PostgreSQL/MySQL, optimizing large-scale data ingestion and retrieval (similar to **power market** data volumes).
- Utilized **pandas** for data transformations and **matplotlib** for visual analytics.

Engineer – Hybrid
USPRO   **January 2020 – April 2021, Burlington, MA**
- Authored backend documentation and workflows to streamline development for civil engineering tools.
- Collaborated in **Agile** teams to design technical solutions, achieving a 100% client approval rate.
- Led the integration of backend systems to ensure smooth data flow and system compatibility across engineering tools.

Projects & Interests

Schwab API Market Data Retrieval
- **Built Python scripts** to authenticate with the Schwab API and **automate** retrieval of historical S&P 500 data, then processed the datasets using **pandas**.
- **Analyzed and visualized** daily and weekly price ranges, standard deviations and seasonality trends with libraries like **plotly** and **matplotlib**.

EDUCATION

B.S. in Engineering (ABET-Accredited)
Universidad Jose Antonio Paez • Carabobo, Venezuela • October 2017

ADDITIONAL INFORMATION
- Authorized to work in the United States under EAD C08.
- Open to relocation and remote opportunities.