

FRANCISCO GONZALEZ

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SUMMARY

Python developer with experience in real-time systems, chart engines, and **automation** pipelines.

SKILLS

- Frameworks: **Django, FastAPI, Flask, PySide6**
- Libraries: **PyQtGraph, pandas, openpyxl, docxtempl**
- Databases: **PostgreSQL, MySQL, SQLite**
- Tools: **Git, Swagger, VSCode, Thinkorswim**
- Other: **API Development, Data Modeling**
- Programming: **Python, SQL, JavaScript**

EXPERIENCE

Python Developer – Contract at Outlier.AI | Jun 2024 – Present

- Validated AI-generated **Python** logic using structured test sets and edge-case coverage tools.
- Enhanced backend validation workflows for model cycles using **pandas** and custom input tooling.
- Improved error tracing systems and feedback pipelines to ensure stable AI **integration**.
- Collaborated with engineering leads to align test depth with architecture performance goals.

Software Developer – Contract at Cupen Systems | May 2021 – Jun 2024

- Engineered modular backend utilities using **Django, FastAPI**, and **pandas** for analytics workflows.
- Built dynamic chart controls and signal-driven data tools using **PySide6** and **PyQtGraph**.
- Applied object-oriented design for scalable code reuse across **automation** and strategy components.

Engineer – Hybrid at USPRO | January 2020 – April 2021

- Documented backend tooling processes and technical workflows across infrastructure teams.
- Contributed to internal toolchains for deployment QA, task tracking, and release systems.
- Dedicated and committed approach with strong communication and Agile participation.

PROJECTS & INTERESTS

Options Strategy Simulator & Analytics Engine

Built a **Python**-based simulation engine for analyzing options strategies across tickers. Modeled volatility effects, gamma exposure, and time decay across intraday behavior ranges. All strategy testing and visualization is rendered through my custom chart engine, not **Matplotlib**.

Modular Multi-Chart Trading Interface

Designed and built a real-time chart engine using **PySide6** and **PyQtGraph** from scratch. Supports dynamic layouts, screenshot tools, style themes, and 25+ charts at sub-15ms latency. Architecture includes drag-resize panels, synced overlays, and chart grid management logic.

Resume AI Automation Engine

Developed a backend tool that merges job descriptions with structured user data via prompt engineering. Built with **pandas, openpyxl**, and **docxtempl**, includes resume/cover export, tracker updates, and I/O tests.

EDUCATION

B.S. in Engineering – Universidad Jose Antonio Paez (ABET) | October 2017

ADDITIONAL INFORMATION

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