NEVIO GOMEZ

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Software Engineer with over 5 years of experience working with international clients and teams, development of software programs using various languages & technologies, backend development, statistical analysis development with ML models and NN models and development of applications that interact with LLMs locally.

EDUCATION

Rafael Belloso Chacin University (URBE) · Maracaibo, Venezuela (2014)
Bachelor of Industrial Engineering

RELEVANT EXPERIENCE

TECH AND SOLVE · Remote (Sep. 2022 – Apr. 2024)
Digital transformation through software development projects and DevOps with agile as a methodological framework.

SR Python Dev (XM SA ESP) (Jun. 2023 – Apr. 2024): Backend development of two **Python** programs to calculate the annual energy expected to be produced under controlled conditions for solar plants and wind farms of various sizes.

- Both applications were developed using FastAPI, Polars, Pandas, Xarray, Scipy, Numpy and Azure libraries, with libraries like pvlib used for specific calculations.
- Built an **Azure** client to interact with Blob Storage and retrieve user-uploaded Parquet files for calculations.
- Achieved over 95% reduction in wind farm data processing time through optimization using Python's multiprocessing library and NumPy/Pandas vectorization. Parallelized three computationally intensive processes within the application. The expected number of calculations can be described by the formula $((n * T) - n) + ((n * T) - n) + ((n * T^2) - n))$ where T represents the number of turbines and n represents the number of data rows per turbine.
- Ensured code quality through unit testing with mocked dataframes and data, achieving over 90% coverage.
- Implemented robust error handling using structured logging and frontend API integration to provide user-friendly error messages.
- Evaluated the feasibility of Python script integration with the frontend using **C++** DLLs and explored the possibility of building a desktop application with **Rust**.

SR Python Dev (BalkanID) (Sep. 2022 – Feb. 2023): Led the development of a Python program that interacts with the Google Cloud Platform (**GCP**) API to extract and generate a file with the desired information for a start up company in Austin, TX. The program allowed the client to have access to over 50.000 records of valuable data.

- Development and maintenance of a Python program which allowed the client to easily extract the information they were interested in.
- Make use of the Google APIs libraries to interact with the platform and retrieve the data.
- Manipulation of the data using Pandas, Numpy and Jupyter to obtain the desired output, clean the data, visualize the data and generate a file that the client can use.
- Use of Pytest and Unittest libraries to build mock tests, ensuring the quality of the code delivered.
- Use of structured logging to easily spot errors within the application and generate a log file.

FREELANCE · <u>Remote (Apr. 2016 – Present)</u>

<u>**Self-Employed Software Developer**</u>: Developed a variety of programs to automate repetitive tasks for my clients, predict possible outcomes, organize messy information and clean data. Have worked in projects that involve the use of statistics, reading and editing Excel tables, web scraping, data analysis, Machine Learning models and Neural Network models, NLP, and web development and design.

- **(2018 – 2019) - Klickwell –** Worked with two clients to develop a horse betting program using Python that successfully reduce horse races to four horses, with a good accuracy rate for predicting the winning horse. The program allowed the clients to automate and reduce the calculation time by around 60%. A Neural Network model was also trained using Tensorflow based on the data collected in the process, which improved the evaluation score by around 30% against the old method.
- **(2021) - E-commerce Website for client –** Built an E-commerce website using Django and Braintree as payment gateway where a customer can buy the products listed and generate the order for the shipment.
- **(2022) – E-commerce Website using NextJs/Tailwind/Typescript/PostgreSQL/DRF –** Rebuild an E-commerce website for selling physical and digital products. Integrated Paypal and Braintree as payment gateway.

<u>**Side projects**</u>: A list of some relevant side projects that I'm working on:
- **Eunomia** – Code assistant that uses open source GPT large language models to analyze local code. The assistant is build using **Python**, Langchain and ChromaDB. At the moment only GPT4All models are supported. Working on GPU support to optimize the model response time.
- **CS Stickers API & UI –** A Counter-Strike API using ASP.NET and FastAPI to retrieve relevant information about the game stickers and capsules (24h price, all time high, amount sold, etc.) and display it in a UI build with **.NET** MAUI. The idea is to give the user the ability to compare the prices of the items and how their prices have changed over time.
- **TCP Protocol – Golang** implementation of the TCP protocol using Linux native TUN/TAN interface (water package).
- **Anya –** TUI HTTP Client build with **Rust** to interact with web endpoints.
- Visit **My Portfolio** or **GitHub** to see more of my projects.

LANGUAGES

· Spanish (Native) · English (High) · French (Intermediate) · Japanese (Basic)