Rainer Palm

Data Scientist / Dashboards / Databases / Software Development / Python

Graphic Design / Sound Recording & Editing

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Experience

- **Development Projects at *Henry*** As part of Henry's course syllabus, i made 3 individual projects, and a final group project:

  - **mqueryAPI**: Worked as the Software Developer for a home server API using Docker, Gunivorn and FastAPI. Information (around 20.000 rows from 4 different datasets) on movies from popular streaming services is transformed, stored in a Parquet file and finally queried via Pandas.

  - **predImmobiliario**: Worked as the Data Engineer for a ML classification model using Scikit-Learn. The model was trained on around 210.000 rows of data extracted from various property listing sites (including Craigslist), and used to predict whenever the price for a specific property on another dataset with 38.000 entries will be high or low depending on it's characteristics.

  - **moocDashboard**: Worked as the Data Analyst for a Streamlit dashboard where data (around 4.000 entries total) on 3 popular MOOC services was analyzed thoroughly in Jupyter notebooks (one for each), and a KPI was visualized on 3 different dashboard pages.

  - **flujos_migratorios**: Worked as a Data Analyst and Architect on a group project called *flujos_migratorios* where we collected and analyzed data on migration and human development across 4 different datasets, with approximately 200.000 entries total (sourced from UN reports and the World Bank DataBank API), for the creation of a Scikit-Learn predictive model and PowerBI dashboard, with 5 pages and 4 KPIs. A MySQL database was created in Amazon RDS, and i made an ETL pipeline where the raw data was formatted from the source .csv/.xlsx files with Pandas into uniform, clean, SQL-friendly tables, then loaded into the RDS database using Peewee. Afterwards, i made Jupyter notebooks with EDAs for 2 of the datasets and worked on the dashboard.

- **Translator at *Qu4nt*** Worked as a English-Spanish Translator for Scikit-Learn and Matplotlib's documentation (16.000~ words total), using translation tools like Crowdin.

- **Programmer at *Qu4nt*** Worked as a Software Developer, giving technical and programming support for 5-6 months for the Scikit-Risk Python library and a variety of other projects.

- **Guide at Mérida's Museum of Science and Technology** During high school, i worked part-time as a Museum Guide for around half a year in a Natural Sciences museum. Here, i gave a presentation to our visitors, explaining the technological, historical and seismological displays to 10-20 people every half hour, for an average of 60 people each work day.

Technical Experience

- Programming Languages:

  - **Python**: 5 years of working experience in the aforementioned projects
  - **Lua**: Intermediate knowledge from my own hobby projects

- Databases:

  - **MySQL**: Studied as part of Henry's syllabus, used in Henry's projects
  - **PostgreSQL**: Studied on my own, used in Henry's projects
  - **MongoDB**: Studied as part of Henry's syllabus, used in Henry's projects
  - **AWS Redshift**: Studied as part of Henry's syllabus, used in Henry's projects
  - **AWS RDS**: Studied as part of Henry's syllabus, used in Henry's projects
  - **Microsoft Azure**: Studied as part of Henry's syllabus

- Frameworks/Libraries:

  - **SQLAlchemy**: Studied as part of Henry's syllabus
  - **PySpark**: Studied as part of Henry's syllabus
  - **peewee**: Studied on my own, used in Henry's projects
  - **pandas**: Studied on my own, 2 years of working experience in the aforementioned projects
  - **streamlit**: Studied on my own, used in Henry's projects
  - **scikit-learn**: Studied on my own, 2 years of working experience in the aforementioned projects
  - **matplotlib, seaborn**: Studied on my own, 2 years of working experience in the aforementioned projects
  - **Univorn**: Studied as part of Henry's syllabus, used in Henry's projects
  - **FastAPI**: Studied as part of Henry's syllabus, used in Henry's projects
  - **Love2D**: Beginner knowledge from my own hobby projects

- Software Tools

  - **Docker**: Studied as part of Henry's syllabus, used in Henry's projects
  - **PowerBI**: Studied as part of Henry's syllabus, used in Henry's projects
  - **Canva**: Studied on my own, used in Henry's projects
  - **Microsoft Excel**: Studied as part of Henry's syllabus, used in Henry's projects
  - **Adobe Illustrator**: Used on my own hobby projects and studied in a EDAT course
  - **Adobe Premiere & After Effects**: Used on my own hobby projects
  - **Inkscape & Gimp**: Used on my own hobby projects, for 9 years now
  - **Ableton Live**: Used on my own hobby projects, for 4 years now
  - **Godot**: Currently studying

- Human Languages:

- **Native Spanish speaker**
- **Advanced English speaker**: Learned on my own. Have earned an C2 Proficient EF SET certificate
- **Basic Japanese speaker**: Learned and studied with a Japanese teacher in Mérida, Venezuela. Have earned a N4 certificate

Education

2022-2023

- **Data Science - Full Time**; *Henry* (Argentina) Intensive online data science course where we were taught how to program in Python, create and manage relational databases, host and deploy products online, and a multitude of data visualization and analysis tools, culminating in the creation of 4 proyects.
- **Recording Arts Course**; *6por8* (Mérida, Venezuela) Music recording course where we were taught the basics of composition, music theory, psychoacoustics and sound engineering, how to set up a home studio, the details of a variety of microphones/compressors/reverbs/amplificators, their usage and a multitude of common techniques, as well as how to fit this knowledge within the music making process. During the last month of this course, we created an original song, applying the techniques learned with tools given to us.

2021

- **Adobe Illustrator for Social Networks**; *EDAT - School of Design and Technological Artisanship* (Mérida, Venezuela) Graphic design course where we were taught how to use Adobe Illustrator to make a brand identity for a particular business or company, including the basics of font usage, visual language, etc.

2018-2020

- **Physics**; *University of the Andes* (Mérida, Venezuela) Studied for 3 years in this Mérida university, where i learned physics, chemistry and calculus up to a basic level, as part of the university's syllabus.