Daniel Iván Parra Verde Last Updated on 12th February 2029

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EDUCATION

UNAM-CFATA

2021 | BSc. TECHNOLOGY

GRONINGEN UNIVERSITY (G)

2019 | BSc. Al

Netherlands; Full Scholarship

UNAM-IIMAS

2022 | MSc. MATHEMATICS

SKILLS

Programming Languages:

Python • TypeScript • SQL • Julia • Wolfram • Bash

Frameworks:

Django • FastAPI • Airflow • React

Native • Prefect

Libraries:

Langchain • LlamaIndex • OpenCV • Pandas • PyTorch • Scikit Learn • Numpy

• SQLAlchemy • Docling • Pytest

Cloud Services:

Hugging Face • AWS SageMaker • AWS S3 • AWS Lambda • AWS API Gateway • CometML • ZenML • Railway • Vercel • Stripe • Sendgrid

Databases:

PostgreSQL • MongoDB • Qdrant • Redis • SQLite

Software Tools:

Docker • Git • VSCode • Cursor • LATEX

• Microsoft Office • Slack • Notion

Languages

English $(+C1) \cdot German (+B1) \cdot Spanish$

COURSEWORK

Bachelor

Deep Learning in Python (G)
Relational Databases in SQL (G)
Artificial Intelligence in Python (G)
Algorithms and Data Structures in C (G)
Linear Algebra
Differential Equations Series

Master

Statistical Inference Theoretic Machine Learning Information Theory Statistical Foundations of Privacy Numerical Analysis **Python, Julia** Real and Functional Analysis

WORK EXPERIENCE

FOUNDER & AI ENGINEER

MXAI | January 2024 - Present | Remote

- Developed and deployed an AI-powered sales agent achieving 100% catalog's product lookup accuracy and +95% FAQ retrieval rate, with automated cart management and payment processing, using telegram-bot API, Stripe LangChain, FastAPI, and LlamaIndex in AWS and Railway.
- Built corporate website using modern tech stack (Next.js, TypeScript, Tailwind, shadcn/ui) with responsive design.
- Currently developing a SaaS platform for sales forecasting and revenue optimization using **AWS** and **ML** technologies.

DATA SCIENTIST

Kuona | December 2023 - May 2024 | Remote

- Trained and deployed RNNs to optimize the sale units of various manufacturers and retailers with **Pytorch**, **Python** on **AWS**, containerized with **Docker**.
- Modeled competitors' pricing data and implemented LIME for demand elasticity analysis using Pandas, Pytorch, Scikit-Learn, and PostgreSQL.
- Contributed to dashboard with **Django** and **PostgreSQL** for operations team to simulate dynamic pricing strategies and revenue management scenarios.

DATA SCIENTIST JR.

Entropía AI | February 2023 - November 2023 | Remote

- Managed NLP tasks using RAG and prompt engineering with LlamaIndex, Pandas, MongoDB, and LangChain.
- Created ELT pipeline with Python, bs4 and Airflow from scrapped Mexican Political System data into MongoDB.
- Contributed to the agile development of Icaro AI web app hosted in Heroku.

DEVELOPER INTERNSHIP

Wolfram Research | February 2021 - February 2022 | Remote

- Built the 'Wolfram Summer Camp' app using Wolfram One's cloud.
- Rotated into Wolfram Alpha software development team.

PROJECTS

ARXIV DOMAIN EXPERT LLM

GitHub Repository

- Developed ML pipeline and created custom finetunning datasets in **Hugging**Face for ArXiv-specialized LLM, trained and deployed on **AWS SageMaker**.
- Utilizes MongoDB, Qdrant, ZenML, CometML, and AWS for infrastructure.

MASTER THESIS: NEURAL MODEL IDENTIFICATION WITH EKF

PhD. Esteban A. Hernandez-Vargas | Systems Medicine of Infectious Diseases

- Implementation of model identification algorithm for recurrent neural networks in **Julia** programming language using Extended Kalman Filter Theory.
- Error analysis of optimization, approximation and statistical generalization.

"CONVOCATORIA JÓVENES TALENTOS 2018" CONCYTEC

PhD. Rafael Chávez Moreno | Unit of High Technology Juriquilla, Qro.

- Secured funding (\$89,000 MXN) for the design and manufacture of a Rover.
- Responsible for the computer vision and path planning subsystems instrumented with a Raspberry Pi and a Kinect sensor with **Python**.