Gustavo Chipantiza

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Skills

- Flask | FastApi | Node Js | PHP | Backend | Microservices | SQL | MongoDB | Neo4j | Unit Testing | Git | CI / CD | Jmeter | JavaScript | React
- Python | ETL | AWS | Docker | Airflow | Kafka | Apache Hop | Spark | GCP | Data lake | Data Warehouse | Data Lake House | Knime | R
- Machine Learning | NLPs | LLMs | Langchain | Azure | OpenAI | PowerBI | English & Spanish – *Both professional*

Interest

- I am passionate about learning new things and thrive on tackling any challenge that comes my way. I seek an environment focused on achieving greatness and striving to be the best in what we do.

Experience

Software & Data Engineer, Camtom.   *Mexico, Remote* **| 02/2024 - present**

Improved an **AI multimodal model** for categorizing tariff fractions, **increasing accuracy from 43% to 84%,** and **deployed it via an API Rest.** Led data-driven projects using **Scrum and CRISP-DM**, developed a CRM system with Clean Architecture principles, and **built data pipelines** for Data Lake storage and **batch data processing**. Also responsible for maintaining services and databases, migrating services to **AWS Lambda**, and implementing **CI/CD pipelines** with **GitHub Actions, AWS ECR,** and **AWS ECS** to ensure high-quality continuous delivery.
(Python, AWS, Langchain, LLMs,, Node.js, Docker, MongoDB, S3, Scrapy , Airflow)

Intern Machine Learning Engineer, Anomaly Detection , LinkedAI.   *Cali, Colombia* **| 06/2023 - 11/2023**

Conducted extensive research on image labeling techniques, tools, and formats such as COCO, YOLO, and Pascal VOC to ensure optimal performance and compatibility. Led the development and deployment of an anomaly detection system, improving image labeling accuracy for AI model training to **90%**. Utilized **FastAPI** and **React**, deploying the solution on an **EC2** instance.**(FastAPI, React, AWS, Machine Learning).**

Software Engineer , Fire Prevention System, UAO.   *Cali, Colombia* **| 07/2022 - 05/2023**

Developed an **IoT-based fire prevention system** with **ESP32**, enabling **real-time device monitoring** via a **PHP web app** and automatic fire alerts to local firefighters. Implemented a **microservices architecture** with **Node.js** and **MariaDB,** scaled with **Docker Swarm,** i**ncreasing availability by 6x** and deployed on **Azure**. Processed real-time data using **PySpark** and integrated **Power BI** for data visualization, with performance tested via **Postman and JMeter. (** PHP, Node.js, C/C++ ESP32, PySpark, Power BI*).*

Projects

GDELT Big Data Processing 2.5 TB (*Project*)   **07/2024 - 08/2024**

Processing over **2.5 TB of data**, I utilized **Google Cloud Storage as a Data Lake.** I implemented an a**utomated script that runs daily at 1 a.m**. to incrementally load new records generated each day. For data processing, I employed **Databricks on Google Cloud Platform (GCP),** utilizing clusters from **Google Kubernetes Engine.** Additionally, I implemented a **Lake House** approach based on the **Medallion architecture,** organizing the data into **Bronze, Silver, and Gold layer.**

MIT Critical Data | 2nd Place (*Datathon*)   **07/2024 - 07/2024**

Led the development of a machine learning model with **85% accuracy** to predict the likelihood of a patient missing an MRI appointment, addressing a **financial loss of over $210K in two years.** Our data analysis revealed that patients **who confirmed appointments were 40% more likely to attend.** Based on this insight, **we built a WhatsApp app to automate confirmations and reminders**, leveraging research showing that WhatsApp is **97%** more effective than other communication channels in Latin America. Conducted exhaustive research to select the most appropriate technologies and methodologies.**(Python, Machine Learning, WhatsApp API, Nodejs, Data Analytics , PowerBI).**

CopyTrading In Binary Options Market (*Project*)   **12/2021 - 07/2022**

Developed a **copy trading app** , that replicates the operations from the topTraders in Binary Options. **(Python,Postgres , Kafka , AWS ec2).**

Education

Coding Fellow , Makers Fellowship.   *Bogota, Colombia* **01/2024**
- Makers Fellow(01/2024 - present). **Rappy's Cofounder program that incubates the top 1% technical and entrepreneur talent from latam.**

Bachelor of Engineering , Autonoma De Occidente University   *Cali, Colombia* **01/2019 - 06/2025**
- Bachelor, Mechatronic Engineer (01/2019 - 01/2023)   • Bachelor, Data & AI Engineer (06/2021 -06/ 2025) GPA: 4.6/5