Bruno Gil Ramírez· Computer Science Engineer · Puebla, Mexico · bruno.gilram@gmail.com · +52 222 335 0798

Bruno Gil

- Status: Marketing Intern: Jr Developer At Weidmüller Mexico
- Tech-Skills: Python, SQL, Java, C, HTML5, JavaScript, Data Structures, and Heuristics
- Soft-Skills: Initiative, Assertiveness, Purposefulness, Proactivity, Adaptability, Autodidactic, Creativity
- Interests: AI, LLMs, Data Analysis, Web Services, Back-end, Software Development
- Languages: Spanish, English, German

Summary

Computer Science Engineer with a strong interest in Back-end Development, Data Science, and Artificial Intelligence (LLMs). My current priority is to apply my knowledge in service of an organization, contributing and collaborating as a team, with a focus on achieving the best possible results.

Experience

05/2019 - 03/2020 **Developer** VIBLAS

- **Database maintenance**. Using relational systems, SGBD: **MySQL**.
- **Software development**. Automated database connection using **JDK 9** (Java).
- **Software documentation**.

05/2022 - 06/2023 **Data Analyst** University SS program

- **Data Researching**. Conducted extensive research on mental health and sentiment analysis.
- **Data Retrieval**. Retrieved information using **Python**, **sklearn**, **pandas**, and **numpy**.
- **AI Development**. Developed sentiment classification models using **TensorFlow**, **pandas**, **Python**, and the **RoBERTa** model for implementation with a Discord bot.
- **Emotional Chat-bot implementation in Discord** (deprecated). Implemented using the **hikari** micro-framework and **nltk** in **Python**.

05/2023 - 08/2024 **Head Researcher** Sólo Escúchame Research

- **Data Researching**. Conducted extensive research on **LLMs**, Machine Learning, Transformer Architectures, and Low Rank Adaptation.
- **Data Compilation and Retrieval**. Used Hugging Face library, **pandas**, **sklearn**, **numpy**, and **nltk** in **Python** to create two datasets: HEAR and HRECPW.
- **Llama2 Fine-Tuning**. Fine-tuned LLaMA2 for Emotional Accompaniment using **LoRA**, **PEFT**, and the **Transformers** framework.
- **Model Evaluation**. Developed metrics based on the Socratic Method and Active Listening Techniques and applied them manually and through automation for model evaluation.

01/2024 - 01/2025 **Marketing Intern: Jr Developer** Weidmüller Mexico

- **Web Scraping**. Utilized **Requests**, **BeautifulSoup**, **pandas**, and **JSON** frameworks for HTML processing to extract product data.
- **Database Development and Maintenance**. Used pandas and **ORM** frameworks like **SQLAlchemy** and **pg8000** to create and maintain a **PostgreSQL** database hosted on **GCP** (Google Cloud Platform).
- **Back-end Development**. Developed an API using **FastAPI**, **Docker**, and **GCP Cloud Run** with Continuous Integration to serve product data for wholesalers. Also created an authentication back-end based on **OAuth2.0** to manage API access.
- **Front-end Development**. Designed the UI using **Web Components** (HTML) and **JavaScript**. Pre-rendered the server-side app using **Jinja2** and FastAPI.
- **Data Analysis**. Filtered and organized customer data collected during events using **pandas**.
- **GitHub Repository Administration**. Managed versions and branches of the GitHub repository using git.

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Education

2018 - 2024 **B. Eng. in Computer Science** BUAP

- Thesis: Methodology and Implementation of Algorithms Based on Language Models for Emotional Accompaniment

Technological Events Participation

2024 **ISTAS 2024** IEEE - UDLAP

- International Symposium on Technology and Society
- Participation: Attended
- Location: UDLAP. Puebla, Mexico
- Date: 18/09 - 20/09

2024 **MICAI 2024** SMIA - ONR - INAOE

- Mexican International Conference on Artificial Intelligence
- Participation: Author by Research Paper: "Sólo Escúchame: Spanish Emotional Accompaniment Chatbot"
- Received the Best Poster Award for the paper "Sólo Escúchame: Spanish Emotional Accompaniment Chatbot" at MICAI 2024
- Location: INAOE. Puebla, Mexico
- Date: 21/10 - 25/10

Languages

2012 - 2017 **English** Harmonhall

- Level: B2

2018 - 2022 **German** VW Languages School

- Level: A2

Social Media

My Profile

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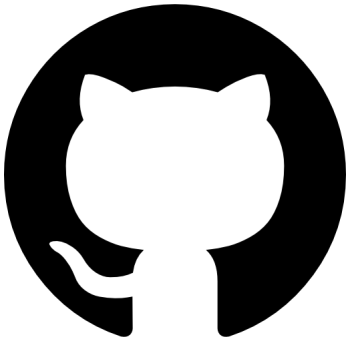

My Profile