KEVIN URIEL MANZANO RIOS

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EXPERIENCE

Python Developer and Natural Language Processing at Rombo Works

📅 Jan 2024 – Oct 2024

Led the information retrieval team in developing a RAG (Retrieval-Augmented Generation) system to power an advanced chatbot capable of answering natural language queries about the Official Gazette of the Federation of Mexico. Implemented intelligent retrieval solutions with Python, leveraging vector databases and natural language APIs, achieving complete and structured responses, regardless of the query period or type.

Teacher in High School

📅 Aug 2020 – Aug 2021

Developed and delivered C/C++, algorithms, and problem solving lessons to 60 students in the Algorithm Club and taught how to use the OMIbot to students interested in the Mexican Olympiad in Informatics (OMI).

RELEVANT PROJECTS

Algorithm Learning Project

Developed "Allearning", a platform to teach competitive programming in C++. The application offers users interactive lessons and exercises. To complement the experience and make it accessible from any device, created a web page using .NET.

Conversational Virtual Assistant "ZAID

Created ZAID, a conversational virtual assistant using Python. Implemented its ability to interact with the user in natural language and perform various automated tasks. The system was designed to run in the background and respond to voice commands intelligently.

EDUCATION

B.S. in Artificial Intelligence Engineering

Superior School of Computer Sciences (ESCOM, IPN)

📅 Jan 2022 – Expected Dec 2025　　📍 Av. Juan de Dios Bátiz 46188, CDMX

- Intended major: Computer Science

Technical Career in Informatics

Center of Scientific and Technological Studies N°13 (IPN)

📅 Aug 2018 – Aug 2021　　📍 Calz Taxqueña 1620, CDMX

- Overall Average: 82 out of 100

Python 3 and Azure courses

📅 2021

- Took an official Microsoft course to get certified in "Microsoft Azure Fundamentals AZ 900" and a Python course using python 3, SQLite3, and Flask.

TECNOLOGIES

C/C++ (5 years)　Python (5 years)
Rust (6 months)　TensorFlow (1 year)
PyTorch (2 years)　C# (1 year)
Docker (1 year)　Linux (2 years)
HTML (3 years)　MySQL/SQLite (2 years)
Chroma DB (1 year)　Git/GitHub (5 years)

APTITUDES

Teamwork　Software Architecture
Code Optimization　Logical Approach
Initiative　Problem Solving　Creativity

LANGUAGES

Spanish	Native language
English	B2 - Upper Intermediate (CEFR)
German	A2 - Elementary (CEFR)

AWARDS AND CONTESTS

Second Place (State competition)

Mexican Olympiad in Informatics (OMI)

- Completed a preparatory course given by the Center for Educational Technological Innovation (CITE) on competitive programming in C++.
- Participated in the Mexican Olympiad in Informatics (OMI) and won the silver medal at the state level.

Robotics Contests

Robot War, MakeX

- Have participated in 2 robotics contests, robot war and MakeX Robotics Competition, sponsored by MISUMI and CreativaKids respectively.

International Collegiate Programming Contest

ICPC

- Have participated in the ICPC in 2020, our team reached the top 100 in the finals.