Héctor Yoav Ugarte Ramírez

@ hector_ugarter@hotmail.com | 🔗 LinkedIn | ⚙ GitHub | ⊕ Portfolio | 📍 Puebla, Mexico

SKILLS

Languages: C/C++, Java, Python, JavaScript, TypeScript, SQL, Bash, Lua
Technologies: Flask, Django, Angular, React, MySQL, MongoDB, Git, AWS, GCP, OpenCV, PyTorch, TensorFlow

EXPERIENCE

AddAstra   Puebla, México
Fullstack Engineer Intern   *Jan 2024 – Present, Full-time*
- Proficient Full Stack Programmer specializing in WordPress and PHP development.
- Skilled in improving workflows through Bash scripting and Gulp automation
- Led creation of AI-powered chatbots, resulting in increased user engagement and successful launch of a new sub-brand.

CIIEC   Puebla, México
Assistant Researcher   *Jul 2023 – Apr 2024, Part-time*
- Worked on the "Developed a Python tool to graphically analyze EEG records, providing an intuitive visualization of the most active brain regions. Leveraged libraries like Matplotlib and NumPy for efficient data visualization and manipulation.
- Implemented machine learning methods, including K-means, to cluster and identify behavior patterns in EEG readings. This automation enhanced the analysis process, improving efficiency and precision in interpreting EEG data.

Mirai Innovation Research Institute   Osaka, Japan
Software Engineer   *Apr 2023 – Jul 2023, Internship*
- Implemented a platform using RTSP protocol, Python, and React for real-time visualization and remote control of a vehicle. This integration allowed users to monitor and operate the vehicle seamlessly.
- Employed Logitech SDK for remote vehicle operation, developing an Arduino controller to synchronize movements. Worked with various electronic components for vehicle assembly, incorporating motors for steering, wheels, video transmission, and sensors.
- Developed an AI capable of predicting and following roads, enhancing the ease of vehicle operation. This innovation added a predictive element to the platform, allowing for smoother and more intuitive control of the vehicle.

PROJECTS

AWS-Deployed Rental Management Platform | *ArmoredMex*
- Developed a comprehensive platform for a luxury car rental company facilitating:
  * Vehicle data tracking and management for enhanced maintenance and monitoring
  * Seamless appointment scheduling and management for improved customer experience
- Deployed the platform on AWS cloud infrastructure for scalability and reliability
- Implemented robust security measures to safeguard sensitive customer and vehicle data
- Collaborated closely with stakeholders to ensure the platform met business objectives and user requirements

Minecraft AI | *GitHub*
- Effectively designed and implemented an AI agent for Minecraft, utilizing Python, Torch, and the MineRL framework. The objective was to employ multiple AI training algorithms with the aim of determining the most effective approach for completing the MineRL Basalt competition task.

Resume Scanner & Soft Skills Coach App | *GitHub*
- A web application leveraging AI to enhance your resume. Additionally, it utilizes a language model for a more in-depth CV analysis, providing more nuanced feedback. The platform also employs AI for a swift soft skills interview, analyzing voice and speech patterns to detect pauses, hesitations, and areas of improvement for a more human-like evaluation.

EDUCATION

Benemérita Universidad Autónoma de Puebla   Puebla, México
B.Sc. in Computer Science; ***GPA: 9.3/10***   *Aug 2018 − Oct 2024*

AWARDS & ACHIEVEMENTS

WER MEXICO 2018: Participation at the national robotics contest WER MEXICO (2018)

Mirai Innovation - Best Project for the Industry Award(Osaka, Japan). (2023)

Second Place in the ANIEI HACKATON: Recognized for creating the top applications with economic and employment relevance (Oct 2023 − Nov 2023)