DIEGO VITALES MEDELLÍN

SOFTWARE ENGINEER

CONTACT

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SKILLS

Critical Thinking

Perform well under pressure

Team work

TECHNICAL SKILLS

C/C++: Competent

Java: Competent

Python: Competent

Elixir: Advanced Beginner

Julia: Novice

PLATFORMS

Unity/C#: Proficient

Android Studio: Competent

Phoenix Framework: Competent

Neovim: Proficient

Laravel: Competent

React: Competent

LANGUAGES

Spanish ◆◆◆◆◆

English ◆◆◆◆◇

Japanese ◆◆◇◇◇

PROFILE

College Student with many years of experience in robotics competitions, passionate of Computer Science and eager to learn in order to improve and help other people. Music and videogames enjoyer.

EDUCATION

Instituto Tecnologico de Estudios Superiores de Monterrey

Computer Science and Engineering

2020-2024

Received an Academic Excelence Scholarship

WORK EXPERIENCE

Game Developer Intern

Catapulta Academy   2020-2023

Developed a game for an educational platform using Unity as game engine, with OpenGL as a platform, communicating Unity with JavaScript in order to embbed the game into our custom website: https://catapulta.academy/

Backend Developer Intern

Catapulta Academy   Dec 2022-Apr 2023

Worked on a custom API by adding and modifying different queries using the Phoenix Framework (Elixir) with GraphQL, in order to quickly get and change data in a DataBase. Website: https://catapulta.academy/

PROJECTS

Heatmap for gas leak detection

Worked on a heatmap hosted on a website for the company Ternium, using React for the frontend, and Unity to generate the heatmap. The website gathered information from an API with the sensor data to then be shown in the heatmap.

Online Vending Machine

Built a vending machine connected to the internet, so that users could buy the products online and then pick them up with a QR code. The website was made with PHP and HTML only, and the vending machine was programed with Arduino and Python (QR code detection). GitHub repository: https://github.com/DiegoPython/CS50-NASA-Vending-Machine

LEADERSHIP

- Best Team Award in the World Educational Robot Contest in Shanghai, China 2018
- 4 time Reginal winner in FIRST Robotics Competition Regionals in Mexico and US
- Mexican Robotics Tournament winner in Robocup Soccer Primary Lightweight
- Titanes de Mexico schoolarship winner for the 2019 MakeX Robotics Competition in Mexico