Bocanegra Trenado Diego Fernando

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EXPERIENCE

- **PPSTI**, JULY 2019. SOFTWARE ENGINEER (FREELANCE)
  Frontend development with JavaScript and **JQuery**. Implementation of **UI** functionalities with a **RESTful API** using **JQuery** and **Postman**. Problem solving with implementation and deploying of some functionalities and libraries with **JavaScript**.

PROJECTS

- **ENTERPRISE DELIVERY ADMINISTRATION SYSTEM.**
  MARCH 2020
  Developed an enterprise delivery administration system for supplies of products with **GS1-128** codes for a small company, through an Android App to check shipping status and a web system to create orders. I used **Volley** in the Android App to communicate with the **RESTful API** of the system. In the web app I used **HTML5, CSS3** and **JavaScript (Vainila JS with XMLHttpRequest).** Finally, the **RESTful API** was created using **Flask**, **JWT** for authentication and **MySQL** as database system.

- **EMBEBED SYSTEM TO SAVE DIESEL FOR HEAVY DUTY TRUCKS.**
  MAY 2020
  Worked in collaboration to develop a prototype of embedded system that could determinate the optimal speed in order to save diesel in heavy duty trucks. I coded in **PIC C Compiler** using a **PIC Microcontroller** with several **sensors (Push button, Gyroscope)** and several **actuators (LCD)**.

- **AUTOMOTIVE PARTS DETECTION**
  AUGUST 2019
  Created a logistic classification model using **Tensorflow** on **Python**. The model was able to predict successfully the label of 10 different automotive parts with **77%** of success. The model was deployed using **Python** for both web (**flask**) and desktop (**Tkinter**) applications. Finally, I developed a system to access the nearest local automotive parts stores using **Google Maps API**.

EDUCATION

- **POLYTECHNIC UNIVERSITY OF QUERETARO**. El marques, Queretaro **Computer Systems Engineering** 2017 – Present (9th Quarter).

- **CECYTEQ NO. 83**. Pedro Escobedo, Queretaro **Technical career on programming with engineering fundamentals** 2014-2017

AWARDS

- 2019 **3rd PLACE** IN "HACKATHON CIUDADANO DEL ESTADO DE QUERÉTARO".
  E-Voting system based on **blockchain** technology, facial recognition system and ID detection system using **Python, Truffle, Ganache, MetaMask HTML and JavaScript.**

- 2017 **3rd PLACE** IN "NUEVOS TALENTOS CIENTÍFICOS Y TECNOLÓGICOS" IN THE CATEGORY OF INFORMATIC PROJECTS.
  Alarm bracelet by motor vibration programmable through an App made in **Xamarin** using **Arduino** and **Micromotors**.

SKILLS

TECHNICAL

PROFICIENT: CSS3, Bootstrap, SASS, HTML5, JavaScript, JQuery, JWT authentication, MySQL, SQL Server, Firebase, PHP, Adobe XD, Figma, Balsamiq, MATLAB, Java (JBDC, AWT, Swing), Processing, VBA, C/C++, Python 3 (Flask, numpy, pandas , cv2, selenium, pygame, matplotlib), Android Studio (Java), Linux, Shell Script, Git, Github, PIC microcontrollers (PIC C compiler), Arduino and Raspberry Pi.

FAMILIAR: React JS, DevOPS, Agile (Scrum) and Machine Learning.

SOFT

Problem solving, adaptability, leadership and critic thinking.

HOOBIES.

Drawing, football soccer, maker projects and audiovisual production.