

Bocanegra Trenado Diego Fernando

E-mail: diego.bocanegra.trenado@gmail.com

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.
- **EMBEDED 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, React JS, JWT MySQL, MongoDB, SQL Server, Firebase, PHP, Adobe XD, Figma, Balsamiq, Java (JDBC, 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: **DevOPS, Agile (Scrum)** and **Machine Learning**.
- **SOFT**
Problem solving, adaptability, leadership and critic thinking.

HOOBIES.

Drawing, football soccer, maker projects and audiovisual production.