

Miguel Angel Pedraza Aguilar

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EDUCATION

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

Bachelor of Science in Computer Science and Technology Engineering

August 2020 – May 2024 (On going)

GPA

96/100

SKILLS

Relevant Coursework: Programming of Data Structures and Fundamental Algorithms

Programming Languages: Python (Proficient), C++ (Proficient), HTML (Proficient), CSS (Proficient), JavaScript (Familiar), Swift (Familiar), SQL (Familiar)

Developer Tools: VSCode, Xcode, Unity, Github, Git, Arduino IDE

PROJECTS

Pocket-Garden (School Group Project)

- Developed a model and **mobile application** using **Swift** in which we displayed information collected through **sensors** connected to **NodeMCUs**, sent to our real-time **Firebase** database, and retrieved for our application. Enabling an easy and simple way to monitor our little greenhouse.
- Completed **entire development** process for app, including the front-end interface using **Xcode** and **Swift** for back-end retrieving data stored in our **Firebase** database. Aug 2021 – Dec 2021
- Connected and programmed one of the sensors to one of the **NodeMCUs** in our model using the **Arduino IDE** which uses **C++** as the programming language.

Sorting Algorithm System (School Project)

- Developed a **terminal program** using **C++** to create a menu where you can use the different **sorting algorithms** to compare and learn about the **efficiency** and **complexity** of every solution. Aug 2020 – Sep 2020
- Planning on making it a **website** application to create a more visual and complete experience.

WORK EXPERIENCE

WhatNext (Personal Project)

- Developed a **website** in which the user will be able to either input their preferences on what series, amine, or movies to watch, or get the recommendations from the website depending on parameters of the user like mood, genre, etc. May 2022 – Present
- Used **Python** to **automate** the decision-making process and we'll be including the **Pandas** library and an **API** as well to get lists of movies, series, or anime from other websites.
- Used of basic **HTML**, **CSS**, and **JavaScript** for the front-end of the website.

Course, 100 Days of Code - 2022 Web Development Bootcamp

- Course to learn everything about **web development** including the best management of **front end** and **back end** with **NodeJS**, hosting and deployment, databases using **SQL** and **NoSQL**, security, authentication, and how to work with **services** and **APIs**. Apr 2022 – Present

Tic-Tac-Toe (Personal Project)

- Developed a **terminal mini game** using **Python** to teach myself about the basics of the Python programming language with the intention to add a graphical interface in the future. Aug 2020 – Dec 2020
- Learned about version control and usage of **Git** and **GitHub** to keep an organized project.

AWARDS AND LEADERSHIP

- 2nd place winners designing University's Mobile Application (MiTec) Feb 2022 – Mar 2022
- Participant ICPC Competitive Programming Aug 2021 – Oct 2021
- Participant of Top Teen Programmer 2020 – Oracle CUP Oct 2020 – Oct 2020
- Exchange student in F+U Academy of Languages, Heidelberg Germany. Summer 2019 May 2019 – Jun 2019