

# Miguel Angel Pedraza Aguilar

Monterrey, Nuevo León, México

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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

97/100

## SKILLS

**Relevant Coursework:** Programming of Data Structures and Fundamental Algorithms

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

### Course, Meta Front-End Developer

- Taking **course** imparted by **meta developers** about everything to be job ready for a **front-end developer** job, with this course we'll learn and **master** the basics of **HTML**, **CSS**, **JavaScript** and build up with **libraries and frameworks** such as **Bootstrap** and **React**. Ago 2022 – Present

### 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

- 2<sup>nd</sup> 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