# Alvaro Alberto Cruz Jiménez

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## EDUCATION

**Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM)**                    Graduating in July 2026

*B.S. in Computer Science and Technology*                    *GPA 93/100*

## SKILLS

| PROGRAMMING LANGUAGES | TECHNOLOGIES | LANGUAGES |
|---|---|---|
| *C++, C, JavaScript, Python, Dart, MATLAB, Elixir,* | *HTML, CSS, SQL, React, Firebase, Unity, Flutter, Git,* | *Spanish (Native)* |
| *PHP, R, Kotlin, Swift, Julia.* | *VirtualBox, Unix/Bash, Android Studio, Phoenix, ESP32,* | *English (B2)* |
| | *Arduino, Xcode, Flask, Fast Api, TensorFlow, Pandas, OpenGL,* | |
| | *NumPy, Matplotlib, Sklearn, node, Jetpack Compose, Salesforce,* | |
| | *Jupyter, Anaconda, google Colab.* | |

## EXPERIENCE

**Endeavor México**                    Puebla, México

*Data intern*                    *Oct 2024 – Apr 2025*

*Internship program on Endeavor Mexico. Involved in Data intern activities in Endeavor México on data analysis, SQL databases infrastructure and machine learning development for probability and Chatbot.*

- Used software development methodology scrum.
- Employed project management software like Monday.
- Utilized programming languages like Python and R for data analysis and machine learning development.
- Utilized Query Languages like SQL to consult and structure the database.
- Used database technology like Salesforce.

## PROJECTS

**TOPOS web page**                    Puebla, México

*Full-stack Developer*                    *Feb 2024 – Aug 2024*

*Web page for "TOPOS FC fútbol para ciegos puebla" focused on court reservation systems, team registration, leagues and tournaments, statistics, and an admin page.*

- Used software development methodologies such as waterfall and scrum.
- Employed project management software like Trello and Miro.
- Used design software like Figma to mockups design and Lucid Chart to design database structures.
- Utilized programming languages like JavaScript for Front-end and Back-end, PHP for Back-end and management of database.
- Utilized Markup Languages like CSS and HTM to design the web page.
- Utilized Query Languages like SQL to create and structure the database.
- Used version control tools such as Git.

**Leadership Games Web Page**                    Mexico City, México

*Full-stack Developer*                    *Jun 2024 – Aug 2024*

*Web page for "leadership diploma" by ITESM to improve soft skills in users by playing videogames.*

- Used software development methodologies such as Agile methodology.
- Employed project management software like Trello and Miro.
- Used design software like Figma to mockups design and Lucid Chart to design database structures.
- Utilized programming languages like JavaScript for Front-end and Back-end, PHP for Back-end and management of database.
- Utilized Markup Languages like CSS and HTM to design the web page.
- Utilized Query Languages like SQL to create and structure the database.
- Used version control tools such as Git.
- Use of hosting online tools such as Hostinger to publish the domain on web.

**Study Copilot (Hackaton Puebla 2024 5th place)** Mexico City, México

*Back-end Developer* Jun 2024

*Google extension to help student in scientific research by providing reliability percentage, resume of the page, asking function with the page, optimized search, read information and obscure mode using GPT API.*

- Used software development methodologies such as Agile methodology.
- Employed project management software like Trello and Miro.
- Used design software like Figma to mockups design and Lucid Chart to design database structures.
- Utilized programming languages like JavaScript for Front-end and Back-end, Python for http requests on Back-end.
- Utilized Markup Languages like CSS and HTM to design the web page.
- Used version control tools such as Git.

**Calorie prediction** Puebla, México

*Python Developer* Feb 2023 – *Aug 2023*

*Machine Learning model to make a calorie prediction of any food provided by their nutritional values.*

- Utilized programming languages python for development.
- Utilized libraries like "pandas" for data manipulation, "matplotlib" for graphics and "sklearn" for machine learning model.
- Used online tools like google colab to develop and save the Jupyter notebook.

**Sensor-Flutter-Esp32-Firebase** Puebla, México

*Full-stack Developer* Feb 2024 – *Aug 2024*

*Simulation of a cooling system of different fruits in different locations at the same time and in real time.*

- Used design software like Figma to mockups design and Lucid Chart to design database structures.
- Utilized programming languages like C for Arduino connection with ESP32, DHT11, and Real Time Data Base. Dart for user interface and connection with Real Time Data Base.
- Utilized Flutter Framework, to make the user interface and connection with Firebase RTDB.
- Utilized Firebase Real Time Data Base to store the values of temperature in real time and the changes in temperature.
- Used version control tools such as Git.

**Chase-Take-a-Chance** Puebla, México

*Python Developer* Jan 2023 – *Aug 2024*

*Terror Videogame in 3D developed in python about scaping from a monster in building, collecting stars to win.*

- Used programming languages like python.
- Used concepts of objects-oriented programming.
- Use of pygame and OpenGL library to manage the videogame.
- Employed version control tools like Git.

**Constella Software Solutions (Serenium)** Puebla, México

*Front-end Developer* Jan 2023 – *Aug 2024*

*Social Media app that helps users creating connections through challenges, using threads. Winner of "Emprendedores Tecnológicos" by ITESM*

- Actively involved in creating landing pages for clients.
- Developed application screens using technologies such as HTML, CSS, React, and Unity.
- Used project management software like Trello
- Employed Scrum methodology.
- Utilized languages like JavaScript.
- Employed version control tools like Git.

**CONACYT PRONAII Project for leukemia research** Puebla, México

*Front-end Developer* Aug 2022 − *Aug 2024*

*CONACYT App for Android and IOS to store information on leukemia and train medical staff in cytometry.*

- Developed application screens using the Flutter framework and the Dart language.
- Employed project management software like Trello and Scrum methodology.
- Used version control tools such as Git.

## AWARDS AND CERTIFICATION

- *Hackathon Puebla 2024 $5^{th}$ place (2024) by ITESM*
- *Leadership diploma by ITESM (2024)*
- *Winner of "Emprendedores Tecnológicos" by ITESM (2023)*
- *Cambridge Certificate B2 Level (2021)*