

# Omar Adalid Macias Mayorquin

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## EDUCATION

### Ingenieria en Tecnologias Computacionales (Computer Science)

GPA: 93/100

*Tecnológico de Monterrey*

*Expected graduation date: Jun 2025*

Relevant Coursework: Data Structures & Fundamental Algorithms, Object-Oriented Programming, Data Science, Software Construction and Decision Making, Implementation of the Internet of Things

## EXPERIENCE

### Software Development Intern — PHP, JavaScript, HTML, CSS, Bootstrap, jQuery, SQL Server

Mar 2023 - Present

*Universal Scientific Industrial Co., Ltd.*

- Developing a Back End system with PHP to handle overtime requests and approvals for 2000+ employees
- Designing a Front End interface with HTML and JavaScript to graphically display and manage 6000+ monthly requests
- Implementing SQL Server databases and tables, executing basic to complex queries to ensure data accuracy and efficiency
- Creating a shipping tracker system to ensure reliability and standardized processes by communicating 5 different areas

## PROJECTS

### Fiestabulous — Python, JavaScript, HTML, Flask, Bootstrap, MySQL, Git

Apr 2023

*Web application for party creation, discovery, and enrollment*

See here 

- Orchestrated the development of an efficient RESTful Back End with Flask, connecting it to Azure Database for MySQL.
- Consumed REST APIs, ensuring communication between the Back End and Front End components
- Deployed the project on Heroku guaranteeing accessibility and uninterrupted user experience.

### AI Way — Python, Django, Git

Sep 2022

*A Hackathon project that used a WhatsApp bot to create reports and represent the user's environment on a map*

- Built a web page to visualize traffic and security alerts obtained from the users of any city in real time, with a representation of a heat map for one report, together with my team that were in charge of the frontend using HTML and JavaScript
- Led the backend team using Python and the Django framework, creating a WhatsApp bot with Twilio
- Established a connection between the bot and DeepL to translate the messages from Spanish to English
- Used OpenAI to Process Natural Language and classify the relevant information from user reports
- Implemented the Google Maps API to capture the coordinates of the report and represent it in the webpage

### WePark — Python, Django, Git

Dec 2022

*An Internet of Things project that aims to provide real time and historical data on the occupancy of a university parking lot*

- Developed the backend using Python and Django, including implementing real-time updates and historical data storage
- Managed the database on Azure Database for PostgreSQL, ensuring efficient and secure data storage
- Demonstrated a functional scale model parking lot that automatically updated the web page with occupancy data
- Integrated a satellite map of the parking lot with the Google Maps API showing a real-time heatmap for each segment to represent the current occupancy
- Implemented a comprehensive statistics section, allowing users to view historical data by hour and segment

## SKILLS

### PROGRAMMING LANGUAGES

Python Intermediate  
PHP Intermediate  
C++ Intermediate  
JavaScript Basic  
MATLAB Basic

### TOOLS & ENVIRONMENTS

Windows Subsystem for Linux  
Jupyter Notebooks  
Visual Studio Code  
Git

### CERTIFICATIONS

Microsoft SC-900 Certified: Security, Compliance, and Identity Fundamentals  
Platzi Data Science Route (32% completed)