Andrés de la Garza Rosales

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EDUCATION

Tecnologico de Monterrey (ITESM)

B.S. in Computer Science and Technology

GPA: 96/100 | Academic Talent Scholarship

Aug. 2022 - Jun 2026

Relevant courses: Object-Oriented Programming, DSA, Implementation of the Internet of Things, Modeling of Minimum Systems and Computational Architectures & Analysis of Software Requirements.

EXPERIENCE

SorteosTec Feb 2024 – May 2024

MySQL, Unity, Node.js, JavaScript

- Developed 3 games in Unity with an interconnected inventory to be embedded in the SorteosTec website.
- Engineered and implemented the database necessary for the games in MySQL, including metrics and a wallet for every user.
- Connected the games to the webpage and the database with node is endpoints and post requests from Unity C#.

MIT Beaver Works Summer Institute Online Course TA

Sep 2023 – Dec 2023

Python

- Instructed intermediate and advanced python specifically based on the Autonomous Cognitive Assistance (Cog*Works) course from BWSI.
- Tutored seven students on machine learning with python 4 hours per week.

VEX Robotics ITESM2 Programmer

Oct 2022 – Jun 2023

C++, Git, GitHub, HTML, CSS & JavaScript

- Earned an Excellence Award in the national STEM championship and the Create Award in the VEX U Robotics World Championship, the largest robotics competition in the world.
- Developed the autonomous routines and manual controls for the two robots of the team, including the implementation of a PID controller for a flywheel and an odometry system to coordinate to correlate the robots' positions with the map's elements utilizing the PROS library for C++.
- Made a simulator for the game using JavaScript, HTML and CSS to find and try new game strategies. It included a mode that utilized A.I. through a genetic algorithm to find viable paths for the robots in the autonomous routines.

COVID-19 variants' analysis

Mar 2023 – May 2023

R

• Retrieved over 10 COVID variants' sequences from biological databases. This analysis involved the creation of phylogenetic trees and their hierarchical structure using R and specialized libraries.

Math Olympiads' TA

Jan 2018 – Nov 2021

• Taught combinatorics and number theory to over 30 middle-school students for the Mexican Math Olympiad of Basic Education as a part of the state's OMMEB selection process.

AWARDS

ICPC Mar 2024 - Now

C++

• Member of the team currently ranked #7 in the mexican 2025 ICPC cycle.

Rocket Hackathon Jun 2024

Python

• 2nd place in the Arca Continental's challenge "Anticipating and identifying possible customer churn".

Mexican Math Olympiad

2019 - 2022

- Three times selected as one of the six representatives of Coahuila in the Mexican Math Olympiad (OMM).
- Winner of a bronze and a silver medal.
- Semifinalist in the mexican IMO selection camp.

TECHNICAL SKILLS

Languages: Arduino, C++, JavaScript, MATLAB, Python, C#, R & MySQL

Other: Unity, CSS, HTML, Git & GitHub