Diego Solis

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Education

B.S. Computer Science and Technology Engineering - Tecnologico de Monterrey**,** Campus Monterrey

Expected graduation date: June 2023

Cumulative grade average: 96 / 100. Obtained a scholarship for academic talent. Relevant coursework includes Data Structures & Algorithms, Full-stack Web Development and Networks.

Professional Experience

Pre-Professional Practices — Grupo Gamas   September 2018 – March 2019
- Repaired and replaced computer hardware & routinely performed security backups on computer systems.

Projects

Training Web Application [School project]   April 2021
- Developed a responsive web application that enables Ternium sales employees to be trained through gamification and allows administrators to monitor their performance.
- Focused on developing front-end using HTML, CSS, JavaScript and Bootstrap. Used NodeJS, Microsoft SQL and developed a REST API using NodeJS and Express for back-end.

IP Address Connections [School project]   December 2020
- Developed a C++ program that uses a graph data structure class to calculate the quantity of connections an IP address has. The program is able to efficiently process more than 105,000 data records.
- Used a heap data structure to arrange the data according to the quantity of adjacencies each vertex contained.

Smart Thermometer [Personal project]   November 2020
- Developed an IoT application that tweets my room temperature every three minutes. The data was fetched using a python script to automatically tweet my room's temperature.
- Used a NodeMCU (ESP8266) and temperature sensor, Twitter APIs and Realtime database (Firebase).

Technical Skills

Programming / Languages: C/C++ (most experienced), Python, JavaScript, SQL, HTML, CSS, C# & MATLAB.

Other: NodeJS, Git, Homebrew, XAMPP, Unity, MS SQL, Express.JS, jQuery, MacOS Kali Linux (beginner).

Online Courses: Introduction to Data Science (IBM) & Analyzing Data with Python (IBM).

Leadership

- Participated in ICPC's 2020 programming competition.
- Staff member at HackMTY, Mexico's largest hackathon. Helped in carrying out two online technology workshops that were watched by nearly 400 people.
- Collaborator at the Astronomical Society of Tecnológico de Monterrey. Wrote four astronomy articles that reached nearly 6,400 people.