# Romel Aldair Vázquez Molina

Date of Birth: 08/20/2000 Version: January 2023

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#### **EDUCATION**

## Instituto Tecnológico de Estudios Superiores de Monterrey Campus Monterrey - Nuevo León, México

January 2019-June 2024(Expected Graduation Date)

"Bachelor of Software Engineering" Average grade: 98/100 (3.9 GPA)

# Consejo Nacional de Normalización y Certificación de Competencias Laborales

- México City, México

"EC0474 – Physical Trainer for health maintenance"

March 2023

### Algebra University College - Zagreb, Croatia

"Artificial Intelligence Course"

July 2021

#### Universität Wien – Vienna, Austria

July 2021

"Conferences about experimentation and training for software engineering activities"

#### WORK EXPERIENCE

Kumon Santiago de Querétaro, Querétaro, México

Math Coach September 2018 - January 2019

- Encouraged and taught children and teenagers, to develop their skills in mathematics.
- Taught them how to solve difficult problems, by dividing into simple tasks.

### RECENT PROJECTS

Github link: https://github.com/RomelVazquez2008/RomelVazquezProjects

# Software Development for Arca Continental - University Project (Software **Construction and Decision Making)**

2022

In a team of five members, we develop a dashboard web application for the supervisors training in the Company and a videogame as well in order to apply all the concepts learned around the course.

- Implemented in React (web development), AWS (database), C# and Unity (videogame).
- I designed some assets for the videogame and coded the interaction between then in addition to the database.
- I documented the requirements, design and test case documentation.

## **Lights Traffic Optimization – University Project (Multi-agent systems)**

2021

In a team of four members, we develop a simulation of the implementation of smart lights traffic in one corner of our streets, to reduce the vehicular traffic at some hours

- Implemented in Python, C# and Unity (400 code lines in Python and 300 code lines in C#)
- I designed the car and light traffic agents with the agentPy library.

## **Lexical Analyzer – University Project (Computational Methods course)**

2021

This program processes a sequence of characters in a txt file to identify all the token contained it.

- Implemented in C++ (500 code lines)
- I designed a deterministic finite automaton for the purpose of identifies every input and output.

#### **SKILLS**

### **PROGRAMMING LANGUAGES**

LANGUAGES Spanish - Native language

Python, C, C++ (2 years of experience) Matlab, R, Arduino, MIT app inventor, SQL (6 months of experience)

English – B2 level /EUC score 61 (2021)

Scheme, Unity (2 months of experience)

#### **AWARDS**

I participated in "Olympiad Science Contest" in Physics and Chemistry categories - 2017

I won 1st place "High School app development" competition. - 2017

I obtained an 80% scholarship from Tecnológico de Monterrey. I won 1st place in 10,000m "Queretaro municipal athletics competition" Juvenile Category – 2019

My teammates and I won 1st place in "Grand Spirit COED Puerto Vallarta" - 2022

# **INTERESTS**

I practiced athletics as a long-distance runner for my university team.

Currently practicing gymnastics and cheerleading for my university team.

I like to play strategic videogames, including: Chess, League of Legends, Age of Empires and Civilization.

I enjoy learning topics about finance and physical health care.

### UNNOFICIAL TRANSCRIPT

100/100
97/100
98/100
97/100
100/100
100/100
100/100
99/100
93/100
97/100
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