

# Romel Aldair Vázquez Molina

Date of Birth: 08/20/2000

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## EDUCATION

### Instituto Tecnológico de Estudios Superiores de Monterrey Campus Monterrey (ITESM) – Nuevo León, México

January 2019-June 2024(Expected Graduation Date)

*“Bachelor of Software Engineering – Minor in Finance”*

Average grade: 98/100 (3.9 GPA)

### Asociación Mexicana de Instituciones Bursátiles (AMIB) – Nuevo León, México

*“Investment Strategy Advisor”*

November 2023

### Algebra University College – Zagreb, Croatia

*“Artificial Intelligence Course”*

July 2021

### Universität Wien – Vienna, Austria

*“Conferences about experimentation and training for software engineering activities”*

July 2021

## 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>

### Alibaba Investment Tesis (Investment Club)

2023

*I designed a Structured Note that uses treasury bonds (debt instruments), and call options (derivative instruments), for the stock firm Alibaba.*

- As an integrative project I use my knowledge of derivatives, fixed rent and variable rent.
- The initial investment was \$1,000,000 and I created a strategy of 108 days where the best case is earning \$1,060,094 (+6.01%) and at the worst you end with the same initial investment capital.
- All the data was extracted from Refinitiv Workspace and implemented in Excel, also I created a presentation in Canvas.

### Valuation Multiples (Firms Valuation)

2023

*I used some quantitative methods to describe the possible value or risk of different enterprises.*

- I recreated the Altman Z-Score and the EBITDA multiple methods.
- I analyzed Arca Continental and Salesforce.
- All the data was extracted from Yahoo Finance and implemented in Excel.

### 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 them 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.

## SKILLS

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### PROGRAMMING LANGUAGES

Python, C, C++ (2 years of experience)  
Matlab, R, Arduino, MIT app inventor, SQL (1 year of experience)  
Scheme, Unity (2 months of experience)

### SOFTWARES

Excel, Office, PowerPoint, Canva (3 years of experience)  
SalesForce, Metatrader 5, Capital IQ, Refinitiv (1 year 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 1<sup>st</sup> place in “Grand Spirit COED Puerto Vallarta” - 2022

### LANGUAGES

Spanish – Native language  
English – B2 level /DET score 120 (2023)

## INTERESTS

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I practiced athletics, gymnastics and cheerleading for my university team.  
I like to invest in the stock market and to read financial news.  
I enjoy learning topics about physical and mental health care.