**Romel Aldair Vázquez Molina**

Date of Birth: 08/20/2000

Version: May 2023

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| EDUCATION |

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| **Instituto Tecnológico de Estudios Superiores de Monterrey Campus Monterrey – Nuevo León, México** |  | January 2019-June 2024(Expected Graduation Date) |
| *“Bachelor of Software Engineering – Minor in Finance”*  Average grade: 98/100 (3.9 GPA)  **[Consejo Nacional de Normalización y Certificación de Competencias Laborales – México City, México](http://english.uibe.edu.cn/)**  “*EC0474 – Physical Trainer for health maintenance*” | | March 2023 |

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| **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”*

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| WORK EXPERIENCE |

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| **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. | | |

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| RECENT PROJECTS |

Github link: [*https://github.com/RomelVazquez2008/RomelVazquezProjects*](https://github.com/RomelVazquez2008/RomelVazquezProjects)

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| **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.

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| **Structured Notes (Debt Instruments and Securitization)** |  | 2023 |

*I designed an Investment Strategy that uses CETES (debt instruments), calls, and puts (derivative instruments)*

* The initial investment was $20,000,000.00 Mexican pesos and I created a strategy of 3 months where the best case is earning $23,358,483.20 and at the worst you are left with the same initial investment capital.
* All the data was extracted from Yahoo Finance and implemented in Excel.

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| **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.

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| **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.

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| SKILLS |

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| **PROGRAMMING LANGUAGES** | **SOFTWARES** |
| Python, C, C++ (2 years of experience)  Matlab, R, Arduino, MIT app inventor, SQL (1 year of experience)  Scheme, Unity (2 months of experience) | Excel, Office, PowerPoint, Canva (3 years of experience)  SalesForce, Metatrader 5 (1 month 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 | **LANGUAGES**  Spanish – Native language  English – B2 level /EUC score 61 (2021) |

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| INTERESTS |

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.

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| UNNOFICIAL TRANSCRIPT |

**First Semester** **Grade**

* Elective Course Mathematics and Science

(Mathematics and Data Science for Decision Making) 100/100

* Engineering and Science Modelling 97/100
* Computational Modelling of Movement 98/100
* Computational Modelling Applying Conservation Laws 97/100
* Mathematical Thinking I 100/100
* Analysis of the Structure and Properties of Matter 100/100
* Computational Thinking and Programming 100/100

**Second Semester**

* Computational Biology Analysis 99/100
* Elective Course Ethics and Citizenship

(Ethics and Psychology: From Self-Knowledge to Fullfillment) 93/100

* Physical Experimentation and Statistical Thinking 97/100
* Computational Modelling of Electrical Systems 97/100
* Computational Modelling of Electromagnetic Systems 89/100
* Intermediate Mathematical Modelling 100/100
* Statistic Analysis 100/100
* Modelling of Engineering with Computational Mathematics 99/100
* Object-Oriented Programming 100/100

**Third Semester**

* Elective Course Social and Behavioral Sciences

(Anthropology of the Body) 97/100

* Analysis of Differential Equations 100/100
* Implementation of the Internet of Things 100/100
* Programming of Data Structures and Fundamental Algorithms 100/100
* Modelling of Minimum Systems and Computational Architectures 99/100
* Analysis of Software Requirements 100/100
* Exploration Topic (Social Entrepreneurship) 98/100

**Fourth Semester**

* Elective Course Humanities and Fine Arts (Art Appreciation) 100/100
* Device Interconnection 99/100
* Implementation of Computational Methods 100/100
* Software Construction and Decision Making 100/100

**Fifth Semester**

* Modeling of Multi-Agent Systems with Computer Graphics 100/100
* Analysis and Design of Advanced Algorithms 100/100
* Integration of Computer Security in Networks and Software Systems 94/100
* Elective Course Leadership, Entrepreneurship and Innovation

(Anticorruption in Government, Firms, and Society) 100/100

**Sixth Semester**

* Software Development In Progress