

Roberto Andrés Alvarado Moreira

I'm a math major turned programmer with a focus on machine learning, C++, and data science. In my free, time I like to learn about videogame development

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🌐 <https://github.com/Robdres>
📍 Santiago, Chile

Tools*

[*] Scores presented are relative to the duration of my experience with each tool or skill.

Languages 🌐

Spanish ●●●●●
English ●●●●●

Programming Languages 💻

Python ●●●●●
C++ ●●●●●
Rust ●●●●●
JavaScript ●●●●●
Latex ●●●●●
MySQL ●●●●●

Developer Tools 🛠️

Vim ●●●●●
Git ●●●●●
Linux ●●●●●
Perforce ●●●●●
Jira ●●●●●

Frameworks y Libraries 📦

C++
Curses ●●●●●
Ogre3D ●●●●●
JavaScript
Angular ●●●●●
Nodejs ●●●●●
Vue ●●●●●
Python
TensorFlow ●●●●●
Numpy ●●●●●
Matplotlib ●●●●●

Skills

Leadership ●●●●●
Critical Thinking ●●●●●
Teamwork ●●●●●
Communication ●●●●●

Certificates

Huawei Technologies, Leadership in Engineering Bootcamp
October,2022

Professional Experience

Junior Engineer June,2023 - Present
Synopsis Santiago, Chile

In my current job, as a research and development engineer, I am part of a group that is in charge of maintaining and creating chip verification algorithms

Junior Fullstack Engineer January,2022 - February 2023
Tecsicom Quito, Ecuador

With a small group of programmers we were able to create a complete Angular based website for the daily operations of one of the biggest marketing companies in Ecuador

Quant Internship May,2023 - June,2023
Ney Torres Investment Fund Quito, Ecuador

In charge to analyse and work with financial datasets to assess and improve stock trading analysis, in my short time I learned about the basics of trading enough to create a tool that makes a comparison analysis of financial metric

Teaching Assistant June,2022 - March,2023
Universidad San Francisco de Quito Quito, Ecuador

I helped and collaborated with David Hervas, Math PhD, with academic activities

Education

Math Major January,2019 - May,2023
Universidad San Francisco de Quito Quito, Ecuador

Courses: Numerical Analysis, Neural Networks, Differential Geometry, Real Analysis, Stochastic Processes

Computer Science Major January,2020 - Present
Universidad San Francisco de Quito Quito, Ecuador

Courses: Artificial Intelligence, Databases, Computer Architecture, Java Programming, C++ Programming

Philosophy Minor January,2018 - May,2024
Universidad San Francisco de Quito Quito, Ecuador

Courses: Philosophy of Religion, History of Philosophy, Process Philosophy, Platonic Dialogues

Projects

Testors August,2021 - May,2023
Universidad San Francisco de Quito

Learn and participate in many projects that involve the use of testors, also known as rough sets, in order to reach better processing times by reducing the number of attributes necessary for classification processes

Palm Tree January,2023 - May,2023
Quito, Ecuador

Alongside professor Miguel Castillo from NC State University, it was possible to work with a database of the Palm Tree, to create metrics to analyse the performance of difference infrared measure devices.