

# Roberto Andrés Alvarado Moreira

Motivated student and programmer dedicated to the study of mathematics and its applications within computer science and web development, also passionate about the new technologies, artificial intelligence, optimization methods and numerical analysis. Searching opportunities to learn and delve deeper into the world of new technological research

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🌐 <https://github.com/Robdres>  
📍 Quito, Ecuador

## Tools

### Languages 🌐

Spanish ● ● ● ● ●  
English ● ● ● ● ●

### Programming Languages 💻

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

### Developer Tools 🛠️

Vim ● ● ● ● ●  
Git ● ● ● ● ●  
Figma ● ● ● ● ●  
VSCode ● ● ● ● ●

### Platforms 🌐

Linux ● ● ● ● ●  
Docker ● ● ● ● ●  
Windows ● ● ● ● ●

### Frameworks y Libraries 📦

Angular ● ● ● ● ●  
TensorFlow ● ● ● ● ●  
NodeJs ● ● ● ● ●

## Skills

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

## Certificates

Huawei Technologies, Seed for the Future, Leadership in Engineering Bootcamp  
October, 2022

## Professional Experience

### Junior Programmer

Tecsicom

January, 2022-February 2023

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

### Researcher

Universidad San Francisco de Quito

June, 2021-Present

Quito, Ecuador

Along with all my teammates in the artificial intelligence laboratory in the university, we have used neural networks to learn and create new applications for AI in our environment

### Data Analyst

Ney Torres Investment Fund

May, 2023-Present

Quito, Ecuador

In charge to analyse and work with financial datasets to assess and improve stock trading analysis

### Teaching Assistant

Universidad San Francisco de Quito

June, 2022-March, 2023

Quito, Ecuador

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

## Education

### Math Major

Universidad San Francisco de Quito

January, 2019-May, 2023

Quito, Ecuador

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

### Computer Science Major

Universidad San Francisco de Quito

January, 2020-May, 2024

Quito, Ecuador

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

### Philosophy Minor

Universidad San Francisco de Quito

January, 2018-May, 2024

Quito, Ecuador

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

## Projects

### Neural Networks

Universidad San Francisco de Quito

June, 2022-Present

Quito, Ecuador

Work inside many computer vision projects, many of them guided by me. Learning and creating useful applications of AI inside our world

### Testors

Universidad San Francisco de Quito

August, 2021-Present

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

Quito, Ecuador

January, 2023-May, 2023

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.

### Computer Vision

Quito, Ecuador

January, 2023-Present

Alongside professor Julio Ibarra from USFQ, the computer vision project will try to reconstruct a face based on a photograph