

# Roberto Andrés Alvarado Moreira

Motivated programmer and researcher dedicated to the study of mathematics and its applications within computer science, 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>  
📍 Santiago, Chile

## Tools

### Languages 🌐

Spanish ● ● ● ● ●  
English ● ● ● ● ●

### Programming Languages 💻

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

### Developer Tools 🛠️

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

### Frameworks y Libraries 📦

C++  
Curses ● ● ● ● ●  
Ogre3D ● ● ● ● ●

### JavaScript

Angular ● ● ● ● ●  
Nodejs ● ● ● ● ●  
React ● ● ● ● ●

### Python

TensorFlow ● ● ● ● ●  
Numpy ● ● ● ● ●

## Skills

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

## Certificates

Huawei Technologies, Leadership in Engineering Bootcamp  
October, 2022

## Professional Experience

**R&D Junior Programmer** June, 2023 - Present  
Santiago, Chile

*Synopsys*  
In my current job as a research and development I was part of a group that manages and is in charge of chip verification. In just a few months, I learn enough to be left in charge of a complete tool in the process and I was able to create many tools to improve developer everyday work

**Junior Programmer** 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

**Researcher** June, 2021 - May, 2023  
Universidad San Francisco de Quito 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 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 - May, 2024  
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.