



NICOLÁS ZAPATA ÁLZATE

Software Developer

PROFILE

I am a passionate Software Engineer and programmer with expertise in both Linux and Windows environments. I have developed software using a diverse range of programming languages, libraries, and frameworks. My primary focus work is in Artificial Intelligence, where I have worked on impactful projects involving Machine Learning tools. My thesis involved creating a supervised model using a meticulously crafted, manually curated training set. Additionally, I have collaborated with teams to accelerate business growth through innovative AI-driven solutions.

CONTACT

LOCATION:

Manizales, Caldas, Colombia.

PHONE:

+57 3128856774

WEBSITES AND SOCIAL MEDIA:

Website:

<https://nicolas-zapata-portfolio.vercel.app/>

Github:

<https://github.com/NicolasZapata>

Linkedin:

<https://www.linkedin.com/in/nicolas-zapata-al/>

Twitter:

<https://twitter.com/niczapata12>

EMAIL:

works_nicolasz@outlook.com

EDUCATION

Bachelor In Informatics Engineering - La Rioja's International University Foundation (UNIR)

February 2019 – July 2023

Emphasis of Computer Engineering, Systems Engineering and Software Engineering.

RESEARCH EXPERIENCE

Academic AI Research - La Rioja's International University Foundation (UNIR)

March 2020 – December 2022

- Collaborated with a team on multiple research initiatives focused on Artificial Intelligence.
- Developed several Python-based algorithms implementing machine learning techniques, including supervised learning and deep learning.
- Designed and executed experiments with custom datasets, refining model performance and validating outcomes.
- Enhanced our research methodology, contributing to a deeper understanding of algorithmic applications in real-world scenarios.

WORK EXPERIENCE

Software Developer – Quanam Group, Colombia

November 2023 – May 2024

- We have made several Modules for Enterprise Solutions with the Odoo16 Tool using Python, XML and JavaScript.
- Worked in Technical support, customization of modules, project management, and supervision.

IT Support – Conviventia Colombia

February 2023 – April 2023

SKILLS

Creativity
Critical thinking
Teamwork skills
Communication
Self-Investigation

LANGUAGES

Spanish (Native)
English (B2)

- Creation of a comprehensive dashboard to track and categorize entrants for the 2023 term, classifying them as Interns, Volunteers, or foreign participants.
- Technical supervision and project management

Mobile Developer (Flutter) – Vibbo

April 2021 – May 2021

As a key contributor to a startup, we were using Flutter to drive the development of a mobile application. We successfully synchronized data through RESTful APIs, extracting information from a PostgreSQL database visualized in Fast API through authentication.

Mobile Developer – Digital Brainly Solutions

January 2021 – April 2021

- Chat UI template with React Native, used for a big app for the communication with the customers.
- Creation of a sample page using Ionic and Cordova.

PROJECTS

Thesis: Coffee's image classification algorithm through training set

Made manually a training set with red and green beans of coffee from the familiar farm, and it was uploaded to a tool called Teachable Machine. This tool uses an algorithm which creates a model based on a Supervised Learning model.

Repo: *TFG Nicolas Zapata Alzate.pdf*

To do React Vite

Task list application developed using React with Vite.

Repo: <https://github.com/NicolasZapata/ToDoReactVite>

Jetpack Compose Application

Mobile application for Android developed natively, it is a demonstration using the Jetpack Compose methodology in Kotlin.

Repo:

<https://github.com/NicolasZapata/Jetpack-Compose-Application>

Fast Web Node.js Practice

Web page developed with the Node.js tool.

Repo: <https://github.com/NicolasZapata/FastWeb-NodeJs-Practice>

Classification Tree UNIR

Classification tree made in Python with the Sklearn, pandas and NumPy. The goal was creating a classification tree using words extracted from the data of a csv format file.

Repo: https://github.com/NicolasZapata/Classification_Tree_UNIR

OpenCV – UNIR

Image manipulation laboratory using Python and OpenCV.

Repo: <https://github.com/NicolasZapata/OpenCV-Unir>

Data Mining – UNIR

Data processing using Python with DTale.

Repo: https://github.com/NicolasZapata/Data_Mining_Unir-1

Fashion Deep Learning

Created with Python and the libraries TensorFlow, Keras, NumPy and Matplotlib, training of a clothing dataset is done using floating values.

Repo:

<https://github.com/NicolasZapata/Fashion-Deep-Learning---Semillero-Quijano>

CERTIFICATIONS

Introduction to Microsoft Azure Cloud Services

February 2025

Certification link: [Coursera](#)

Google AI Essentials

August 2024

Certification link: [Credly](#)

Java Career – Platzi

- Java SE Basic Course
- Java SE Advance Course
- Java EE Course

Android Course – Platzi

Firebase for Web - Platzi

Database Fundamentals - Platzi

Git & GitHub Fundamentals – Platzi

JavaScript Fundamentals – Platzi

Customer Care Foundation's for IT Professionals – LinkedIn

KNOWLEDGE

Android Studio
Kotlin
Java
React
React Native
JavaScript
SQL
PostgreSQL
Firebase
Flutter
Angular
NPM
Node.js
Electron
Bootstrap
Python
HTML
CSS
Microsoft Azure
AWS
Odoo

ACHIEVEMENTS

- Android projects made through mobile programming languages such as Java, Kotlin, and React Native.
- Machine Learning projects through Python and R.
- Enterprise solutions through tools like Odoo and Cloud Computing tools such as Microsoft Azure, AWS,