



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

MAINLY SKILLS

Mobile Development
Backend Development
React Development
React
React Native
Data Science
Linux
Android Studio
Kotlin
Java
JavaScript
SQL
PostgreSQL
Firebase
Flutter Development
Angular
NPM
Node.js
Electron
Bootstrap
Python
HTML
CSS
Odoo

SOFT SKILLS

Prompt Engineering
ChatGpt (o1, o2, o3, o4)
DeepSeek (Chat and R1)
Anthropic's Claude Sonnet
Github Copilot
Cursor
Windsurf
Trae
Cline
Jira
Trello
LaTeX
Bash
Google Docs
Google Spreadsheets
Microsoft Azure
AWS

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's University

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's University

Image manipulation laboratory using Python and OpenCV.

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

Data Mining – UNIR's University

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

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,