

# Julián D. Medina

Full Stack Web Developer & Graphic Designer

Popayán - Colombia (GMT -5)

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Experienced Full Stack Web Developer and Graphic Designer with over 5 years of expertise in the MERN Stack, utilizing React.js and Next.js for frontend development, and MongoDB, Express, and Node.js for backend projects. Skilled in both JavaScript and TypeScript. Additionally, I bring six years of experience in IoT solutions, focusing on firmware and hardware development, including microcontroller electronics and PCB design. Fluent in English, I am dedicated to merging my design and programming skills in my future work.

## EXPERIENCE

### Quiero Ser Digital, Fullstack Sr developer and architect — March 2023 - August 2023 & March 2024 - April 2024

- Lead developer and architect at Quiero Ser Digital <https://www.quieroserdigital.com>, where I designed and developed an innovative educational platform, led a team, and defined technological architectures and strategies. Enhanced platform usability and aesthetics in close collaboration with the design team.

**Tech stack:** React with Typescript, Next.js, Mantine, NextAuth, PayloadCMS, Figma

### EZSnippet, Founder and Developer — November 2023

- Developed EZSnippet <https://www.ezsnippet.io/> a non-profit web application designed to simplify the creation of VS Code snippets. This tool aims to enhance productivity for developers by providing an easy-to-use interface for snippet generation.

**Tech stack:** React with Typescript, Next.js, Mantine, Figma

### Vertrical, Fullstack sSr developer — June 2021 - February 2023

- Developed frontend architecture for Medlify, resulting in a responsive, aesthetically pleasing interface that leverages a modern tech stack and minimalist design.

**Tech stack:** React with Typescript, Next.js, Mantine.

### Siigo, Fullstack sSr developer — November 2021 - March 2022

- Reduced application load times by ~40% by designing and implementing a demo for a new frontend architecture using a progressive web app approach.

**Tech stack:** React with Typescript

### Creazion Cloud, Fullstack / IoT Firmware & Hardware Jr developer — February 2021 - September 2021

- Automated the collection of weather data for agricultural decision-making by developing IoT weather stations for monitoring climatological variables across Colombian coffee farms.

**Tech stack:** Javascript, Node.js, MQTT, MongoDB Cloud, C++ for microcontrollers, ESP32 microcontroller

### SENA, IoT basics teacher — May 2021 - June 2021

- Taught a 40-hour theoretical/practical course about IoT with ESP32/ESP8266 microcontrollers and NodeJS. Thanks to this course, 18 people were certified in IoT Basics by The National Training Service (Servicio Nacional de Aprendizaje - SENA), a national public institution, ascribed to the Ministry of Labor of Colombia.

**Tech stack:** Javascript, Node.js, MQTT, MongoDB Cloud, C++ for microcontrollers, ESP32/ESP8266 microcontroller

### Robot Visual, Backend / IoT Firmware & Hardware Jr developer — November 2016 - October 2020

- Developed IoT circuits for internet-based projector control, transitioning from local to remote management.

**Tech stack:** Javascript, Node.js, MQTT, C++ for microcontrollers, ESP8266 microcontroller

### BeTech, Backend / IoT Firmware & Hardware Jr developer — November 2019 - May 2020

- Designed IoT circuits for real-time monitoring of hotel room variables, enhancing guest experience by reporting data to AWS Cloud.

**Tech stack:** Javascript, Node.js, MQTT, C++ for microcontrollers, ESP8266 microcontroller, AWS Cloud

### R+, Backend Jr developer — September 2017 - January 2018

- Developed the backend for a Unity-based game, improving user experience by facilitating data storage and retrieval for high scores and match histories.

**Tech stack:** Unity, Node.js, MongoDB

## SKILLS

**Programming Languages:** Advanced: Typescript, JavaScript, Node.js, C++ for microcontrollers, MATLAB; Intermediate: Java; Basic: Python.

**Frameworks:** Advanced: React.js, Next.js; Basic: AngularJS.

**Tools:** Advanced: Github, Git, Figma, Adobe Illustrator, Adobe Photoshop, Mantine, KiCad, Eagle/Fusion360, Arduino, DevOps; Intermediate: Docker, MongoDB Atlas, Digital Ocean

**Languages:** Advanced: English; Native: Spanish.

## EDUCATION

**University of Cauca** - Popayán, Colombia. **Bachelor in Physical Engineering**, December 2019

**Highschool with emphasis in electronics** – Technical college Comfacauca, 2012

## CERTIFICATIONS:

**Javascript full stack developer** – Creatic and Platzi. 2018

**English C1 level - European Common Framework** – Cambridge Language Centers, 2012

## AWARDS

**Second place** in SIIGO Hackaton 2021

**First place** in the MathWorks Minidrone Competition Colombia 2018 for developing an algorithm, which includes neural networks and image processing using MATLAB and Simulink

**First place** in the TADHack 2017 - Popayán with the R+ project: Online video game using augmented reality and Unity.