

Nicolas Molina, Senior Full-Stack Developer

Cochabamba, Bolivia

LINKS

[linkedin](#), [Portfolio](#)

PROFILE

I'm a Senior Full-Stack Developer with 10+ years' expertise in development & Tech Management. Recognized by Google as an Angular Developer Expert & Microsoft as a Most Valuable Professional.

EMPLOYMENT HISTORY

May 2023 — Jan 2024

Senior Full-Stack Developer, Platzi

Colombia

As a Full-stack developer, I significantly contributed to integrating AI into Platzi a education online Platform, focusing on creating engaging learning experiences.

My work on the Platzi AI Chat, Ada, involved enhancing both the backend and frontend. I employed HonoJS for serverless Cloudflare functions, enabling REST API consumption, and LangChainJS for managing LLMs (Large Language Models) like GPT-4 and GPT-3, utilizing prompt engineering and the RAG technique for customized interactions. On the frontend, I designed reusable React components and optimized the user interface with NextJS/React and TypeScript, ensuring Ada offered a 24/7 learning assistance.

Additionally, I played a key role in developing the Platzi English Placement Test, an online exam using a FastAPI/Python-built Computerized Adaptive Test (CAT) algorithm and the Whisper Model for voice analysis. This project aimed to precisely assess and improve users' English skills, with NextJS and the AudioWorklet Browser API enhancing the interactive assessment experience.

Apr 2022 — May 2023

Learning Engineer, Platzi

Colombia

As a Learning Engineer at Platzi, my focus was on revolutionising online education through innovative product creation and delivery methods. My aim was to enhance the learning experience for students.

I worked in Platzi's Coding Playground is an interactive platform that helps students improve their JS, SQL, and Python skills through challenges. The platform uses NextJS/React and Tailwind CSS for the frontend, and Pyodide—a WebAssembly-based Python distribution—was employed to facilitate Python execution in the browser. It has made a significant contribution to achieving our goal.

I helped develop the Platzi Fake Store API, an open-source initiative that provides a mock API for e-commerce platform development. This tool is useful for students and teachers who want to create custom projects. It demonstrates our commitment to practical, hands-on learning.

Jun 2020 — Apr 2022

Full Stack Developer, Platzi

Colombia

I was a full-stack developer for the Platzi Master Platform. I led the creation of a web application that monitors interactions between students and mentors. The application captures details such as events, sessions, and feedback.

My responsibilities included balancing new feature development, ongoing maintenance, and support while aligning business objectives with product evolution. I enforced front-end architectural standards and patterns and ensured code quality through rigorous reviews. On the backend, I created a REST API using NestJS and Postgres, improving API stability with unit and e2e testing, and simplified deployment processes using Docker and GitHub Actions. I managed the front end platform using React, React Router, and TypeScript. To improve data handling and state management, I enhanced functionality with React Query. This ensures a seamless and robust platform experience.

Apr 2020 — Jun 2020

Senior Ionic/Angular Developer, Lulla Care

Spain

In my role with LullaAI, an cross-platform app designed as an AI-powered Baby Sleep Coach, I was tasked with both maintaining the app and developing new features. My contributions included redesigning various views and integrating a key functionality that utilizes the device's microphone to monitor and analyze a baby's sleep patterns. This involved employing TensorFlowJS for audio analysis, with the AI model trained to identify distinct baby sounds. To seamlessly incorporate this feature, I used CapacitorJS, Angular and, Ionic to enable a sophisticated integration of machine learning technology within the app to assist parents in understanding and improving their baby's sleep habits.

Mar 2019 — Mar 2020

Technical Lead & Full-Stack Developer, T2M Holding LLP

Colombia

At Capek, a T2M company, we specialize in crafting chatbot solutions tailored for the healthcare and real estate industries, aiming to streamline appointments, FAQs, and various tasks through advanced conversational

workflows powered by Microsoft's BotBuilder and Azure's LUIS for precise user intent recognition. In my leadership capacity, I steered product development to meet user demands, guided developers, and upheld best practices to facilitate seamless delivery. Leveraging Scrum for agile management, our team adeptly balanced the introduction of new features, ongoing maintenance, and support, while also emphasizing code quality through reviews and integrating CI/CD processes using Docker Swarm and GitLab.

To analyze user interactions, we employed Couchbase's NoSQL capabilities and MapReduce for efficient data handling, creating insightful dashboards with technologies like Python/Flask, REST API, GraphQL, and Angular. A significant undertaking involved developing an Angular and Ionic web app for a real estate client, where we applied various performance optimization strategies, intricate forms with asynchronous validation, and Redux for state management, exemplifying our holistic and innovative approach to solution development.

Oct 2017 — Feb 2019

Senior Front-end Developer, SENSETA

Colombia

As a senior full-stack developer and Angular specialist, I have taken the lead in architecting new web applications, utilizing modern scaffolding tools, and integrating state management through Redux in frontend development. My expertise extends to building robust APIs with Python frameworks such as Django and Flask, and mentoring junior developers to ensure adherence to quality standards and best practices.

My projects have included the design of responsive dashboards, the development of complex role-based workflows, and the implementation of multilingual support. Additionally, my skills in Angular, Ionic, and Python have been instrumental in developing web applications that integrate seamlessly with RESTful/GraphQL web services and Firebase/PouchDB for backend management. I have also established strong automated testing frameworks with Protractor and Jasmine, and crafted custom components and wrappers to provide web applications with distinctive UI/UX designs, demonstrating a comprehensive approach to full-stack development and frontend specialization.

EDUCATION

Jan 2010 — Jan 2015

Tecnólogo en Informatica, UNIMINUTO

Colombia

CERTIFICATIONS

Jul 2019 — Present

Google Developer Expert

Google Developers Experts(GDEs) are experienced, recognized developers of Google technologies. They distinguish themselves through frequently speaking at conferences, share their passion and experience by publishing videos and tutorials, writing code samples, mentoring developers and startups and much more. Thanks to their support, developers, high-potential startups and technical communities around the world build and launch highly innovative apps.

Categories: Angular & Web

Apr 2022 — Present

Microsoft Most Valuable Professional

Microsoft Most Valuable Professional (MVP) award recognizes exceptional technical community leadership and outstanding contributions in the technical communities.

Category: Developer Technologies

Nov 2022 — Present

Ionic Developer Expert

The Ionic Developer Experts program is a group of technology experts, influencers, and educators who knowledgeable in the Ionic ecosystem, are active leaders in the space, and contribute to the wider developer ecosystem.

LANGUAGES

Spanish

Native speaker

English

B1

SKILLS

Angular

Ionic/Capacitor

NextJS/React

JavaScript/TypeScript

Web Performance

FastAPI/Python

Docker / Docker Swarm

LangChain (LLMs)

GitHub Actions

Architecture