NICOLAS MOLINA

SENIOR SOFTWARE ENGINEER

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PROFILE

Senior Software Engineer with over 13 years of experience delivering scalable, user-centric products across both frontend and backend systems. I excel in leading architecture and execution, particularly in distributed systems and event-driven design, leveraging technologies such as FastAPI/Python and Node.js. My expertise extends to integrating LLMs and voice AI, enhancing user experiences through innovative solutions. Recognized as a Google Developer Expert and Microsoft MVP, I have a proven track record of building robust, efficient systems that align with business goals and elevate user experience. My work involves collaborating cross-functionally to ensure seamless feature delivery and system performance at scale.

PROFESSIONAL EXPERIENCE

Senior Software Engineer, dotCMS   **May 2024 — Present**

Enhance the dotCMS platform by leading the design and development of scalable features, ensuring alignment with R&D and product goals. Focus on improving performance and reliability through efficient code contributions and collaboration.

- Developed scalable and reusable components to enhance performance and maintainability.
- Led troubleshooting efforts to quickly resolve issues and improve system reliability.
- Owned the SDLC (development, testing, deployment support, and post-release improvements) phases, ensuring timely delivery of user-facing features.

Senior Full-Stack Developer, Platzi   **May 2023 — Jan 2024**

As a Full-stack Developer, I integrated AI into Platzi's online education platform, enhancing learning experiences through backend and frontend improvements.

- Enhanced Platzi AI Chat, Ada, using HonoJS for serverless functions and LangChainJS for LLM management, including GPT-4 and GPT-3 utilizing prompt engineering and the RAG technique for customized interactions.
- Developed reusable React components and optimized the UI with NextJS/React and TypeScript for seamless 24/7 learning assistance.
- Led the development of Platzi's English Placement Test using a FastAPI/Python CAT algorithm and Whisper Model for voice analysis, improving user assessment accuracy.

Learning Engineer, Platzi   **Apr 2022 — May 2023**

At Platzi, I focused on transforming online education by developing innovative platforms that enhance student learning experiences, particularly in coding and practical applications.

- Developed Platzi's Coding Playground using NextJS/React and Pyodide (a WebAssembly-based Python distribution) to enhance JS, SQL, and Python skills through interactive challenges.
- Contributed to the Platzi Fake Store API, an open-source tool aiding students and educators in e-commerce project development.

Full Stack Developer, Platzi   **Jun 2020 — Apr 2022**

As a full-stack developer for the Platzi Master Platform, I spearheaded the creation of a web application to monitor student-mentor interactions, capturing critical data such as events, sessions, and feedback to enhance user experience.

- Led the development of a REST API with NestJS and Postgres, improving stability through unit and end-to-end testing.
- Simplified deployment processes using Docker and GitHub Actions, enhancing efficiency.
- Managed front-end architecture with React and TypeScript, improving data handling with React Query for a seamless platform experience.

Senior Developer, Lulla Care   **Apr 2020 — Jun 2020**

In my role at LullaAI, I maintained and enhanced a cross-platform mobile app focused on AI-driven baby sleep coaching. I redesigned app views and integrated a microphone-based feature for monitoring and analyzing sleep patterns using TensorFlowJS, training an AI model to recognize specific baby sounds.

- Implemented seamless integration with CapacitorJS, Angular, and Ionic for advanced machine learning features.
- Developed key functionalities that improved user experience and provided actionable insights for parents.
- Enhanced the app's architecture to support AI model deployment and performance.

Technical Lead & Full-Stack Developer, T2M Holding LLP   **Mar 2019 — Mar 2020**

At Capek, I led the development of chatbot solutions for healthcare and real estate, using Microsoft's BotBuilder and Azure's LUIS to enhance user interactions. I guided our team in maintaining a balance between feature development and system maintenance, while ensuring high code quality through CI/CD processes with Docker Swarm and GitLab. We utilized Couchbase and MapReduce for data insights, and developed a performance-optimized Angular web app for real estate clients.

- Integrated LUIS and BotBuilder for precise user intent recognition.
- Led a team in Agile practices, focusing on seamless feature delivery.
- Implemented CI/CD pipelines to enhance code quality and delivery.
- Developed a scalable Angular web app with advanced state management.

EDUCATION

UNIMINUTO   **Jan 2010 — Jan 2015**

Tecnólogo en Informatica, Colombia

LINKS

LinkedIn, Porfolio

CERTIFICATIONS

Google Developer Expert   **Jul 2019 — Present**

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

Microsoft Most Valuable Professional   **Apr 2022 — Present**

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

Category: Developer Technologies

Platzi Instructor   **Jan 2023 — Present**

Designed and delivered advanced technical curriculum for Latin America's largest tech education platform. My instruction specializes in web development. I recently authored the LangGraph for AI Agents course, teaching thousands of developers how to build stateful, autonomous workflows and integrate LLMs into production-grade architectures. I focus on translating complex concepts—such as distributed systems and scalable backend logic—into actionable, high-quality code.

LANGUAGES

Spanish (Native), English (B1+)

TECHNICAL SKILLS

Technical Prompt Engineering	Event-Driven Architectures	SQL / NoSQL	Message Queues
Serverless	Distributed Systems	LangGraph / LangChain	FastAPI/Python
NodeJS	NextJS/React	Docker / Docker Swarm	GitHub Actions
JavaScript/TypeScript	Architecture	Celery	