

Miguel Ángel Barros Núñez

Senior AI Engineer | Backend & Full-Stack | Architecture & Integration
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PROFESSIONAL SUMMARY

Systems Engineer with 8+ years of professional experience in technology, spanning data, backend and full-stack development. Currently a Senior AI Engineer at Canadian Tech Forge while maintaining an independent consulting practice. I design architectures, APIs and data models, and direct AI-assisted development workflows using coding agents, reviewing and debugging generated code. My background combines software engineering experience with knowledge of machine learning and agentic AI.

PROFESSIONAL EXPERIENCE

Canadian Tech Forge Jan 2026 - Present
Senior AI Engineer Remote

- Define software architecture and technical specifications, translating business requirements into maintainable solutions.
- Design and direct AI-assisted development workflows using coding agents, structured prompts and contextual instructions.
- Review, test and debug AI-generated code; develop backend services, APIs and data pipelines with Python and SQL, from implementation through CI/CD, deployment and documentation.

Independent Consulting Nov 2023 - Present
Software Engineer / Consultant Remote

- Develop custom software for clients alongside my current role, covering architecture, data modeling, APIs, integrations and deployment.
- Build solutions with Java/Spring Boot, .NET, Go, Python and TypeScript/Next.js; integrate MercadoPago and automate delivery with GitHub Actions, Docker and Coolify.

Thomas Greg & Sons Dec 2022 - Nov 2023
Backend Software Engineer Colombia (Remote)

- Designed a centralized ETL system to consolidate data from multiple national projects and support traceability.
- Developed modules for automated electoral observer selection and Java/Spring Boot microservices on Azure, with MongoDB logging and PostgreSQL and MySQL query optimization.

Transportes Sánchez Polo S.A. Oct 2021 - Dec 2022
Backend Developer Remote

- Led distributed development teams in Ecuador and Mexico and standardized backend processes from Colombia.
- Migrated an RPA system in NetSuite and implemented data integrations with Oracle Integration Cloud (OIC).

EDUCATION

Universidad Internacional de La Rioja (UNIR) 2025 - Present
Master's in Artificial Intelligence - In progress Expected completion: 2027

Universidad Simón Bolívar 2014
Systems Engineering Barranquilla, Colombia

TECHNICAL SKILLS

Architecture & data: Software design, REST APIs, microservices, ETL, data modeling, clean architecture.

Languages & frameworks: Python, Java/Spring Boot, C#/.NET, Go, JavaScript/TypeScript, React, Next.js.

Databases: PostgreSQL, MySQL, Oracle, SQL Server, MongoDB.

AI: Coding agents, prompting, code review and validation; knowledge of machine learning and agentic AI.

Cloud & delivery: Docker, GitHub Actions, Azure, Coolify, Git/GitHub, Oracle Integration Cloud.

Languages & methods: Native Spanish, English B2; Scrum and Agile methodologies.