

Miguel Ángel Mosquera Grisales

Senior Backend Developer | Java, Spring Boot, NestJS | AWS & Azure | Data & AI

Rionegro, Antioquia, Colombia | +57 310 845 7923 | mopri38@gmail.com

linkedin.com/in/miguel-angel-mosquera-grisales | github.com/Migue1409-KP | miguelmosquera.dev

PROFESSIONAL SUMMARY

Systems engineer and senior backend developer with 4+ years of experience building RESTful APIs and microservices with Java/Spring Boot and Node.js/NestJS across banking, consulting, and freelance production projects. Experienced in serverless and distributed architectures on AWS and Azure, asynchronous processing with queue services, and SOAP service integration. Have led the technical architecture, data modeling, and deployment of platforms built from the ground up. Have led proofs of concept (PoC), including building an MCP (Model Context Protocol) server. Currently strengthening my data science and machine learning profile with Python and AWS AI services.

EXPERIENCE

Senior Backend Developer

2025 – Present

Pragma

Colombia

- Develop and maintain backend services in Java and Spring Boot using a microservices architecture, integrating Azure cloud services to improve the scalability and performance of enterprise applications.
- Implement asynchronous processing with queue services for efficient data handling in distributed systems.
- Lead technical proofs of concept (PoC), including building an MCP (Model Context Protocol) server, assessing feasibility and delivering implementation recommendations.
- Work directly with clients in a consulting model, translating business requirements into scalable technical solutions.
- Manage relational and non-relational databases, ensuring data integrity, availability, and query optimization.
- Coordinate deployments using DevOps practices and Git within cross-functional Scrum teams, ensuring quality metrics in every deliverable.

Backend Developer (Freelance)

2025

LegacyVault Technologies LLC – My Lasts

Remote

- Designed and built end to end the backend of My Lasts (mylasts.com), a digital legacy platform in production, using NestJS, TypeScript, and PostgreSQL.
- Modeled the database and modular architecture: file vault, instruction letters, designated recipients, plans, subscriptions, and coupons.
- Built the periodic liveness check via email (AWS SES) and SMS (AWS SNS), which triggers delivery to recipients only after a full sequence of unanswered reminders.
- Implemented file storage on AWS S3 with per-person assignment, time-limited access links, and an audit log of every access and download.
- Implemented authentication with BetterAuth: email and password, Google OAuth, and MFA (TOTP, SMS, and email).

Semi-Senior Development Analyst

2022 – 2025

Banco Finandina

Colombia

- Implemented, maintained, and optimized Node.js backend endpoints for the bank's customer application, working closely with the frontend team.
- Contributed to the biometric validation flow using Amazon Rekognition, orchestrated with AWS Step Functions and .NET Core AWS Lambda functions, with image storage in S3 and exposure through API Gateway.
- Designed and maintained MySQL databases, ensuring scalability and high performance.
- Delivered new features and bug fixes under agile methodologies, with version control in Git.

Teaching Assistant

2022

Universidad Católica de Oriente

Rionegro, Colombia

- Led hands-on sessions for the Logic, Sets, and Functions course, answering questions and reinforcing concepts with students.

TECHNICAL SKILLS

- **Languages:** Java, TypeScript, JavaScript, Python, C#, SQL
- **Backend:** Spring Boot, NestJS, Node.js, Express.js, .NET Core, TypeORM, BetterAuth (OAuth, MFA), RESTful APIs, SOAP, microservices, modular monolith, queue services
- **Cloud:** AWS (Lambda, Step Functions, API Gateway, S3, Rekognition, Cognito, SES, SNS), Azure, Cloudflare R2, Railway
- **Databases:** PostgreSQL, MySQL, MariaDB, SQL Server, MongoDB, data modeling (DBML)
- **Data & AI:** Python for data analysis (Pandas, NumPy), Amazon Rekognition, Model Context Protocol (MCP)
- **Frontend:** Angular, Next.js, HTML, CSS
- **Tools & Methodologies:** Git, GitHub, DevOps, SoapUI, Scrum, PoC leadership

EDUCATION

B.S. in Systems Engineering Universidad Católica de Oriente	2021 – 2026 Rionegro, Colombia
Full Stack Web Developer (ProTalent Program) Digital House Projects: barter e-commerce platform built with Node.js, Express.js, and MySQL.	2021 – 2022 Colombia
Software Programming Technician SENA	2018 – 2020 Colombia

COURSES

- Data Analysis with Python – IBM (Coursera), 2024
- Azure Data Fundamentals (DP-900) – Microsoft Learn, 2024
- JavaScript Essentials 1 & 2 – Cisco, 2025
- Python Essentials 1 – Cisco, 2023
- Git & GitHub; SQL & MySQL – Platzi, 2023
- Leadership – Universidad Católica de Oriente, 2022

LANGUAGES

Spanish (Native) | English (Intermediate, B1)