

Miguel Ángel Rivera Henao

Email rivera.miguel0819@gmail.com Phone +57 3172268520 Location Tuluá, CO
Web <https://marh08192003.github.io/Portfolio/> GitHub [marh08192003](https://github.com/marh08192003)
LinkedIn [miguel-rivera-73186033b](https://www.linkedin.com/in/miguel-rivera-73186033b)

SUMMARY

Systems Engineer specializing in scalable solution development and software architecture. Proven experience in relational database design and the implementation of complex business logic (Triggers, Automation). Focused on delivering high-quality code through CI/CD and SonarQube, ensuring operational efficiency in high-demand enterprise environments. Passionate about solving technical problems and optimizing processes using modern technologies.

EXPERIENCE

Data Analyst Intern / Developer | Avides de Occidente S.A Aug 2025 – Feb 2026
Guadalajara de Buga, CO

- Performance & UX Optimization: Reduced network load by 90% in critical modules by eliminating redundant API calls (dropping from >10 to 1 request per filter) using Angular, significantly improving response speed.
- Scalable Solutions Development: Supported and evolved a ticket management platform for over 10,000 users, implementing automatic geographical assignment logic with NestJS that optimized response times.
- Business Intelligence & Reporting: Designed and deployed a comparative KPI system and automated reports using Power BI, enabling management to monitor daily operations and make historical data-driven decisions.
- Process Digitalization: Developed an electronic signature workflow on PDF documents for travel expenses, integrating CI/CD pipelines for deployment, reducing approval times, and eliminating paper usage.
- Monitoring & Security: Implemented an automated SSL status checker using Python scripts for proactive certificate monitoring, preventing service downtime and ensuring platform security.
- Data Management Efficiency: Automated update processes through bulk CSV uploads using PostgreSQL and backend scripts, streamlining inventory and user management within the central database.

EDUCATION

Bachelor of Science in Systems Engineering | Unidad Central del Valle del Cauca Feb 2021 – Jun 2026
(UCEVA)
Tuluá, CO

Associate Degree in Software Development | Servicio Nacional de Aprendizaje (SENA) Jan 2019 – Dec 2020
Tuluá, CO

SKILLS

Backend Development

Java (Spring Boot) Python Go Node.js (NestJS)

Frontend & Mobile Development

TypeScript JavaScript Dart (Flutter) Angular Astro HTML/CSS

Databases & Data Analysis

SQL PostgreSQL Power BI Data Analysis and Visualization

DevOps & Infrastructure

- Git
- CI/CD Pipelines
- Docker
- SonarQube
- REST APIs

Architecture & Methodologies

- Software Architecture (Clean Architecture)
- SOLID Principles
- DRY
- Unit Testing
- Performance Optimization

PROJECTS

Ruta 32: Creator & Mobile Developer https://github.com/marh08192003/ruta_32

Interactive and educational mobile application designed to explore Colombia's geography and culture. Implements a decoupled architecture based on Clean Architecture and SOLID principles, centralizing the logic of an interactive mini-game (Game Loop) through strict state management while optimizing external resource consumption.

- Dart (Flutter)
- Riverpod
- REST APIs (Http)
- i18n (Localization)

- Scalable State Management: Architecture built on Riverpod (StateNotifier) to fully decouple business logic (scoring, collisions, game loops) from the user interface (UI) layer.
- API Consumption Optimization: Designed and implemented an in-memory caching system (DepartmentCacheNotifier) for API-Colombia consumption, eliminating redundant REST requests when navigating between screens and reducing data loading latency.
- Global Support & Internationalization: Configured full localization (i18n) for Spanish and English using .arb files and automatic code generation with flutter_localizations.

Angular Tree: Lead Developer / Creator <https://marketplace.visualstudio.com/items?itemName=Marh0819.angular-tree>

VS Code extension that automates the scanning of Angular projects. It analyzes components, templates, selectors, and imports to generate an interactive hierarchical tree, optimizing developer onboarding times in complex projects by more than 40%.

- JavaScript
- TypeScript
- VS Code API

Servicios Generales UCEVA: Backend & Mobile Developer

REST API for incident and maintenance management at the UCEVA institution. Centralizes the operational workflow across multiple physical areas using role-based access control (RBAC), JWT authentication, and strict data validation, supporting efficient task registration and assignment for over 5,000 university community users.

- PostgreSQL
- Spring Boot
- Flutter
- Angular

CERTIFICATIONS

Power BI Complete Course: Professional Data Analysis	Udemy	2026
Introduction to Packet Tracer	Cisco Networking Academy	2023
Get Connected	Cisco Networking Academy	2023

LANGUAGES

Spanish — Native English — B2 - Fluent