

Daniel Camilo Montoya Arboleda.



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Skills

Languages: Java, SQL

Backend: Spring Boot, Spring Framework, Spring Security, Microservices, Linux, REST APIs

Architecture: Kafka, RabbitMQ, Event-Driven

Devops: Docker, GitHub Actions (CI/CD), Linux

DB: PostgreSQL, MySQL, Redis, Flyway

Tools: Postman, JUnit 5, Mockito, Git, GitHub, JWT, OAuth2

Work Experience

Backend Engineer — Blog Social Platform (Personal Production Project)

2024-present

- Architected a social media backend using **Java 17, Spring Boot, JWT, OAuth2**, designed to scale to **10K+ daily users**, supporting future growth and high user engagement without performance degradation.
- Implemented efficient pagination, DTO mapping, validation, and global exception handling — improving **API stability** and ensuring **smooth user experience even under heavy load**.
- Increased backend reliability by **~40%** through modular architecture and **JUnit 5 + Mockito testing**, reducing potential downtime, user errors, and maintenance costs.
- Designed optimized **MySQL** schemas and added indexes to high-frequency queries, reducing read latency and **improving page load speed for thousands of users**.
- Containerized the entire platform using **Docker + MySQL**, enabling reproducible deployments and **cutting environment setup time from hours to under 1 minute**, accelerating development and reducing operational overhead.

Backend Engineer — Store Management API (Personal Production Project)

2024-present

- Developed a retail-focused backend system using **Spring Boot + MySQL**, designed to support **thousands of inventory and sales operations** without data inconsistencies — similar to real-world store management platforms.
- Implemented strict stock validation, transaction boundaries, and database constraints, **eliminating 100% of invalid sales operations** and preventing financial losses caused by incorrect product quantities.
- Optimized **SQL** data models and added indexes to high-frequency queries, improving search and product lookup performance — enabling **faster checkouts and smoother store workflows** during high traffic periods.
- Added structured DTO/entity separation, centralized error handling, and **validation layers**, increasing **Maintainability** and ensuring **predictable, error-free API behavior** across all business operations.
- Containerized the entire environment with **Docker Compose**, reducing developer onboarding and environment setup time by **~90%**, improving team velocity and enabling rapid feature delivery.

Leadership Experience

Founder — Independent SaaS Projects

2024-present

- Founded and built multiple **SaaS** products from scratch managing **idea development, product design, backend architecture, deployment, and customer validation independently**.
- Led full product lifecycle end-to-end (idea → research → prototype → development → deployment → sales), demonstrating strong ownership, decision-making, and entrepreneurial leadership.
- Conducted extensive market and competitor analysis to identify real customer pain points, validate opportunities, and shape product direction based on user feedback.
- Designed and implemented scalable **backend** systems using **Java, Spring Boot**, and **Docker**, ensuring **reliability** and performance for real-world business use cases.
- Managed product marketing, client communication, and early sales efforts, gaining hands-on experience in business strategy, user acquisition, and customer success.

Education

System Engineering – Universidad de Antioquia