JOSÉ MIGUEL RINCÓN MARTÍNEZ

DESIGN ENGINEER & FULL-STACK DEVELOPER | REACT 19 • TYPESCRIPT • FIGMA • UI SYSTEMS • ROBUST BACKENDS

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Systems Engineer graduated with top academic honors (Academic Merit Award) and Design Engineer & Full-Stack Developer with 3+ years of experience bridging high-fidelity visual design (Figma, custom SVG architecture, WebGL/Three.js, Radix UI) with production-grade engineering in React 19, TypeScript, Python (FastAPI), PostgreSQL, and PHP/Laravel. Lead author (92.6% codebase) of the IPW Seguros ecosystem (AI Commercial Portal and Back-Office Admin featuring a 7-stage policy lifecycle state machine and SARLAFT compliance). Proven expertise in database concurrency (SELECT ... FOR UPDATE), Redis 7 task queues, deterministic automated testing (React Testing Library, Pytest), and 8 consecutive terms as University Calculus Tutor.

TECHNICAL SKILLS

UI & Visual Systems: React 19, TypeScript, Figma (Design Systems, Auto-Layout, Tokens), Custom SVG Architecture, Radix UI, Tailwind CSS, Inertia.js v2, Three.js (Canvas/WebGL), Accessibility (WCAG a11y).

Backend & Distributed Systems: Python (FastAPI, Django), PostgreSQL (ACID, SELECT ... FOR UPDATE), Redis 7 (Task Queues, Caching, Pub/Sub), PHP (Laravel), RESTful API Design, Webhooks.

Code Quality, Testing & DevOps: React Testing Library, Jest, Pytest (>80% coverage), Docker & Compose, CI/CD (GitHub Actions), Git/GitHub, Linux, Clean Architecture, SOLID.

PROFESSIONAL EXPERIENCE

Design Engineer & Full-Stack Developer — Inversiones y Suministros Alfa S.A.S. February 2021 – June 2024 | Colombia

- Designed and maintained modular full-stack architectures, interactive dashboards, and RESTful APIs in **Python (FastAPI, Django)** and **PHP (Laravel)**, implementing JWT/OAuth2 authentication, RBAC, and strict schema validation across 50+ endpoints.
- Engineered atomic inventory reservation in PostgreSQL via **SELECT ... FOR UPDATE**, eliminating race conditions and ensuring strict ACID transaction consistency under concurrent operations.
- Built asynchronous task processing layers with **Redis 7** and task queues featuring exponential backoff retries and Dead Letter Queues (DLQ), reducing critical endpoint latency from 2.5s to under 450ms.
- Automated unit, integration, and UI verification test suites with **Pytest** (80%+ coverage), containerized microservices with **Docker & Compose**, and deployed automated CI/CD workflows via GitHub Actions on Linux.

Academic Tutor — Differential Calculus (CARA Program) — Universidad de La Guajira March 2022 – November 2025 (8 Terms)

- Formally appointed through **8 consecutive institutional resolutions** by the Human Resources Directorate to conduct Differential Calculus tutoring in the CARA Program under University Student Welfare.
- Designed practical problem-solving workshops and mathematical modeling sessions (limits, derivatives, optimization), honing strong pedagogical ability to break down complex technical concepts into clear, structured, step-by-step explanations.

SELECTED SOFTWARE PROJECTS

IPW Seguros — Commercial Portal, Back-Office Admin & AI Assistant ipwseguros.com.co • github.com/Jmrm16/admin

- Architected the commercial portal with AI assistant and Back-Office Admin (**92.6% codebase authorship**) using **React 19, TypeScript, Inertia.js, Tailwind CSS, Radix UI, and Laravel**: 7-stage policy lifecycle state machine, worker workload assignment, SARLAFT/RUT validation, FPDI PDF programmatic stamping, and WhatsApp CRM.

LIA 5.0 — AI Assistant & Interactive 3D Viewport React • TypeScript • Three.js • SVG Architecture

- Engineered the high-fidelity conversational UI for Congreso Gerentes 5.0 featuring a 3D avatar viewport in **Three.js (Canvas/WebGL)**, custom scalable SVG iconography, responsive dark mode, and real-time AI agent integration.

fastapi-orders-api & task-queue-redis — High-Concurrency Distributed Order Engine github.com/Jmrm16/fastapi-orders-api

- Engineered a high-concurrency order processing engine in **FastAPI** and **PostgreSQL** featuring row-level pessimistic locking (`SELECT ... FOR UPDATE`), Redis 7 queues with DLQ, and parallel test suites in **Pytest**.

EDUCATION

Systems Engineering degree (Graduated with Academic Honors) Universidad de La Guajira | Awarded June 2026

- Academic Merit Honors Mention (Highest institutional distinction for outstanding GPA)
- 1st Place Institutional Award in National Standardized Examination ICFES Saber 11 (2019)

Cisco Networking Academy: Introduction to Packet Tracer Completed November 2023

Languages: Spanish (Native) • English (B1 – Technical working proficiency & fluent spoken professional communication)