

MARCO AURELIO RAMÍREZ SILVA

SENIOR SOFTWARE ENGINEER | FULL-STACK DEVELOPER | SOFTWARE ARCHITECT

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PROFESSIONAL SUMMARY

Senior Software Engineer, Full-Stack Developer and Software Architecture professional with 20+ years of IT experience delivering business-critical software across startups, enterprise, consulting and healthcare environments. Experienced in leading solutions from discovery and architecture through frontend/backend implementation, API and data integration, automated quality, CI/CD and production delivery. Strong hands-on background in JavaScript, TypeScript, React, Vue/Nuxt, Node.js, PostgreSQL, Docker and modern engineering practices, complemented by Python, NestJS, FastAPI, OpenAPI, Azure and AI-agent development. Known for translating business needs into pragmatic, maintainable and scalable software while contributing across the complete product lifecycle.

CORE TECHNICAL EXPERTISE

Frontend Engineering: JavaScript, TypeScript, React, Vue 2/3, Nuxt, Vite, HTML5, CSS3
Backend & APIs: Node.js, Express.js, NestJS, Python, FastAPI, Go, PHP, REST/JSON, OpenAPI
Data & Persistence: PostgreSQL, MySQL, MongoDB, Firebase, SQL Server, Oracle
Cloud & DevOps: AWS, Azure, Docker, Git/GitHub, GitHub Actions, CI/CD, deployments
Quality Engineering: Unit, API/contract, integration, E2E, regression, UAT, release acceptance
Architecture & Product: Software architecture, OOP, design patterns, AI agents, Agile/Scrum, technical documentation

PROFESSIONAL EXPERIENCE

Atlas Data Mapping / BrightInvestor

Senior Full-Stack Software Engineer | Jan 2022 - Aug 2026

- Engineered customer-facing SaaS and data-mapping capabilities across frontend, backend and data layers, using Vue 2/3, JavaScript, TypeScript, Node.js, Express.js, Go, PHP and PostgreSQL.
- Designed reusable UI modules, REST/JSON services and third-party integrations, translating product and business requirements into maintainable production features.
- Supported cloud delivery with AWS, Docker and Git-based workflows while contributing to code reviews, defect resolution and release readiness.
- Applied a Quality Engineering mindset through unit, API/database, integration, E2E, smoke, regression and cross-browser testing to reduce production risk.

Functionize Inc.

Software Engineer - Full-Stack / Quality Engineering | 2018 - Dec 2021

- Built product features, reusable modules and internal engineering/testing tools for a software-testing platform using Vue 2, Nuxt 2, JavaScript and TypeScript.
- Developed backend services, REST/JSON APIs, integrations and PostgreSQL data workflows using Go, Node.js, Express.js and PHP.
- Combined software development with Quality Engineering, creating unit coverage and executing API, database, integration, E2E, exploratory and regression validation.
- Collaborated in AWS and Git-based Agile delivery, supporting technical troubleshooting, release verification and production-quality improvements.

Software Consult Group

Founder / Independent IT Consultant | 2015 - 2018

- Led end-to-end delivery of custom software for healthcare, real estate, professional services and regional businesses, from discovery and estimation through architecture, development, deployment and support.
- Acted as technical consultant and solution owner, converting operational needs into application architecture, data models, APIs, integrations and implementation plans.
- Delivered transactional and web systems using OOP practices, REST/JSON integrations and SQL/data validation while maintaining technical documentation and iterative client communication.
- Established fit-for-purpose quality and release practices covering unit, API/database, integration, E2E, regression, defect triage, acceptance and production support.

SELECTED EXPERIENCE PROFILE

20+ years IT | JavaScript 10+ | TypeScript 8+ | PostgreSQL 9+ | GitHub Actions 7+ | Docker 6+ | Vite 6+ | React 5+ | NestJS 5+ | Healthcare 5+ | FastAPI 4+ | OpenAPI 4+ | Python 3+ | Azure 3+ | AI Agent Creation 3+

ADDITIONAL EXPERIENCE

University Lecturer and Technology Educator | 2004 - 2015 - Taught and mentored engineering students in software engineering, web/mobile development, databases, networks, Agile practices and software testing.

EDUCATION & PROFESSIONAL DEVELOPMENT

Master's Degree - Web Technologies and Mobile Devices, Universidad de La Salle Bajío | Bachelor's Degree - Computer Systems Engineering, Universidad de La Salle Bajío | Professional License 5459717 | Specialization - Teleinformatics and Networks | PSP for Engineers I-II | Cisco CCNA 1-3 | Scrum Master Certification and Agile training

LANGUAGES & LEADERSHIP

Spanish: Native | English: Professional working proficiency | Co-founder and Secretary, Colegio de Profesionistas de TI del Estado de Guanajuato.