

# Erick Alejandro Muñoz Ruano

Senior Software Engineer

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Senior Software Engineer with 13+ years of experience building, scaling, and optimizing enterprise SaaS platforms for venture-backed products and mission-critical environments. Deep expertise in Node.js, TypeScript, PostgreSQL, and cloud-native architectures on AWS and Azure. Proven track record of reducing infrastructure costs, increasing developer velocity, and shipping reliable systems. Now focused on AI-assisted engineering – agentic systems, multi-agent orchestration, and event-driven architectures that simplify complex workflows while remaining resilient, observable, and cost-efficient at scale.

## EXPERIENCE

### Qubika | Aug 2021 – Present | Senior Software Engineer | Remote (US-based teams)

#### Wellness SaaS Consumer Platform

- Architected and led an AI engineering meta-harness around Claude Code – codifying plan, implement, triage, and review workflows behind automated quality gates – that drove a ~3.5x increase in team throughput (story points per sprint) while cutting post-release defects from multiple reports per week to 2-3 per month; adopted as the reference implementation by multiple cross-functional teams across their own repos.
- Built AI-powered authoring tooling for the customer web conversion funnel, enabling marketing and product to create and test onboarding flow variants without engineering: new flow variations dropped from ~2 months / 4 engineers to a ~2-hour AI-generated prototype, and applying a new theme or design system from ~4 weeks to 1-3 days for a single engineer.
- Owned full-stack delivery of onboarding experiences serving ~6K users/month at a ~40% visitor-to-signup conversion rate, balancing rapid experimentation against the reliability of a revenue-critical funnel.

#### Healthcare Startup

- Led development of a healthcare MVP using Next.js and TypeScript that secured ~\$500K in investment; co-designed and implemented search and ranking algorithm with domain expert that reduced core business process delays from several days to hours.

#### Media Streaming Consumer Platform

- Redesigned the video delivery architecture to use a single source video asset with runtime composition instead of pre-rendered variants, collapsing tens of thousands of duplicate videos into one, cutting storage and delivery by ~98%, and eliminating ongoing re-encoding.

#### Engineering Leadership

- Mentored and onboarded 10+ engineers across project teams, accelerating ramp-up and improving code quality through pairing and review.
- Conducted ~50 technical interviews for senior roles, helping shape hiring standards and team composition.

**Tech Stack:** Node, Knex, Objection, React, Redux, TypeScript, Tailwind, Docker, Jest, Testing Library, Cypress, Bitbucket, Gitlab, Jira, AWS, Cursor, Claude Code

### Pentcloud | May 2013 – October 2020 | Senior Full-Stack Developer / Technical Lead

- Migrated legacy stacks (PHP/jQuery/MySQL, Adobe Flex, Oracle DB) to modern open-source architectures, eliminating 100% of licensing costs.
- Led development and deployment of 5+ enterprise SaaS platforms (LMS, CRM, Help Desk, Form Builder, Project Management, Enterprise Social Network).
- Improved API development and integration velocity by ~300% by spearheading the adoption of RESTful patterns and auto-generated clients. Reduced production security vulnerabilities by ~90% using OWASP as a guideline.
- Reduced project lifecycle time and costs by up to 80% by creating an internal open-source low-code tool that could scaffold projects saving weeks and even months of development per project.
- Leveraged PostgreSQL native JSON to cut database design time by ~25% on a dynamic form builder system.
- Migrated infrastructure to AWS + Vercel, boosting DevOps productivity by ~75%.

**Tech Stack:** Svelte, Node.js, Express, PostgreSQL, AWS, Vercel, AngularJS, Ionic, Cordova, MySQL, MongoDB, PHP, jQuery, GitHub

## SKILLS

**Languages:** JavaScript (ES6+), TypeScript, SQL, Python

**Backend:** Node.js (NestJS, Express, Koa, Fastify, Socket.io), REST APIs, ORMs (Knex+Objection, Prisma, TypeORM, Drizzle)

**Frontend:** HTML/CSS, React, Next.js, Svelte, Astro, Zustand, Redux, Tailwind CSS

**Cloud & Infra:** AWS (EC2, S3, Lambda, Cognito), Azure, Vercel, Docker

**Data:** PostgreSQL, MongoDB, MySQL, CosmosDB

**Testing & Observability:** Jest, Testing Library, Cypress, Playwright, Datadog, Analytics (GA4, GTM, Amplitude, Clarity)

**AI Engineering:** Agentic systems & multi-agent orchestration (Claude Code, OpenAI Codex), agent skills & subagent harnesses, context engineering, prompt engineering, AI-driven quality gates

**AI Infra & Tooling:** MCP server development, RAG pipelines, vector search (pgvector, Qdrant), local model serving (Ollama), Vercel AI SDK

**Tooling:** GitHub, GitLab, Bitbucket, Jira, Azure DevOps

**Other:** Native Spanish speaker and C2 Proficient in English (EFSET C2 Proficient 96/100)