

Ronny Arvelo

AI-Native Systems & Platform Engineer

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PROFESSIONAL SUMMARY

Senior Systems & Platform Engineer with 10+ years of experience building cloud-native distributed systems, intelligent workflows, and scalable event-driven architectures across fintech, enterprise, and data platforms.

Specialized in AWS serverless ecosystems, low-latency payment integrations, workflow orchestration, and AI-assisted engineering — including agentic workflows, semantic search infrastructure, and LLM-driven automation. Known for reducing delivery friction through platform tooling, observability pipelines, and intelligent scaffolding systems. Actively researching orchestration patterns for AI-driven engineering workflows and multi-agent systems.

CORE COMPETENCIES

Distributed Systems & Platform Engineering

Event-Driven Architectures · Workflow Orchestration · Low-Latency Systems · Resilient Integrations · Multi-Region Architectures · Queue-Based Systems · Retry & Failure Strategies · Observability & Monitoring · Developer Tooling · CI/CD Automation

AI-Native Engineering

AI-Assisted Development Workflows · Agentic Engineering · ADR Generation · Intelligent Automation · AI-Assisted Refactoring · Semantic Search Infrastructure · Vector Database Modeling · LLM Workflow Integration · Multi-Agent Orchestration

Cloud & Infrastructure

AWS Lambda · Step Functions · DynamoDB · Serverless Framework · AWS SAM · Docker · GitLab CI/CD · Datadog · Redis · RabbitMQ

Languages & Frameworks

TypeScript/JavaScript · Golang · Python · PHP · Bash · PL/SQL | Node.js · Express · Gin · FastAPI · Laravel · Next.js · Vue.js · Lit

Databases

DynamoDB · PostgreSQL · MySQL · MongoDB · Oracle · Weaviate

PROFESSIONAL EXPERIENCE

Senior Software Engineer

NaranjaX — Argentina | 2022 – Present

- Architected and delivered cloud-native event-driven payment integrations on AWS supporting **100+ B2B partners** across the region, including Rappi and Uber
- Led the **first tokenized payment experience at NaranjaX** through Mastercard/Visa Click to Pay integration, establishing PCI-compliant card tokenization standards and unblocking tokenized recurring payments
- Built internal platform tooling and scaffolding scripts that reduced partner onboarding time **from days to hours**, normalizing and standardizing integration patterns across the platform
- Developed distributed orchestration workflows using AWS Step Functions with advanced retry, failure, and event replay strategies to ensure resilient asynchronous processing at scale
- Established an **AI-assisted engineering practice** across the full SDLC using Claude Code and Copilot — accelerating feature delivery by ~25%, automating ADR generation, refactoring analysis, real-workflow E2E testing, and code scaffolding
- Drove observability through Datadog instrumentation and distributed tracing; collaborated cross-functionally with fraud prevention and payment core teams to define scalable integration standards
- Mentored junior engineers and contributed to architectural discussions, CI/CD improvements, and deployment automation

Technologies: AWS Lambda, Step Functions, DynamoDB, TypeScript, Node.js, Serverless Framework, AWS SAM, Datadog, GitLab CI/CD, Lit, Redis, RabbitMQ

Software Engineer

Yabble — New Zealand | 2022 – 2023

- Bridged legacy PHP systems with modern AWS serverless architectures to support scalable distributed research and analytics workflows

- Designed Weaviate vector schemas and embedding ingestion pipelines feeding downstream ML models, enabling intelligent data retrieval and AI-driven product capabilities
- Worked with early LLM-based persona-driven assistant systems, gaining hands-on exposure to conversational AI patterns prior to the emergence of modern agentic frameworks
- Improved platform stability by resolving critical legacy bottlenecks and optimizing high-volume relational database query paths

Technologies: PHP, Laravel, TypeScript, AWS, Serverless Stack, Docker, MySQL, Weaviate, Stripe

Software Engineer

Lustre.ai — USA | 2021 – 2022

- Built Python-based scraping and data ingestion pipelines powering a large-scale product research and sentiment analysis platform
- Optimized complex graph query execution paths and analyzed database execution plans, significantly improving latency and platform stability across high-volume seller intelligence workflows

Technologies: PHP, Python, Golang, Graph Structures, Next.js, TypeScript, Docker, MySQL

Lead Software Engineer / Technical Lead

Boehringer Ingelheim — Argentina | 2019 – 2020

- Led engineering coordination across a multinational team of up to 15 contributors building a global enterprise web platform integrating Salesforce and HubSpot
- Developed reusable components compliant with GDPR, accessibility, and enterprise security standards; implemented automated testing workflows that improved delivery reliability
- Drove sprint planning, release management, code reviews, and technical mentoring across distributed agile teams

Technologies: Drupal, Express, Docker, Vagrant, MySQL, AWS, OAuth2, Acquia Cloud

ADDITIONAL EXPERIENCE

Company	Role	Period
Engeni / Helix TCS	Software Engineer — microservices & API integrations (Laravel, Lumen, AWS, OAuth2)	2019
BairesDev / América Móvil	Software Engineer — backend systems & data pipelines (PHP, Python, RabbitMQ, Oracle)	2016–2019
Prolearning	Lead Developer — web platforms (Laravel, Angular)	2015–2018
Kryptos Corp	Consultant/Developer — Oracle enterprise systems & Unix environments	2013–2017

PERSONAL PROJECTS

- Building **task automation agents** using LLMs for repetitive engineering workflows
- Researching and prototyping **multi-agent orchestration** architectures

EDUCATION

Computer Science — Universidad Nueva Esparta, Venezuela

CERTIFICATIONS & TRAINING

- **Developing on AWS** — AWS Training & Certification (August 2023)
- **Full Stack Web Development** — freeCodeCamp (2016–2017)

LANGUAGES

Spanish — Native · English — Advanced