

ANDRES LEONARDO VARGAS RODRIGUEZ

Senior Software Engineer & AI Engineer | Backend · Cloud (AWS) · Agentic AI (Claude Code, OpenCode, MCP)

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SUMMARY

Senior Software Engineer with 9+ years designing, building, and scaling backend systems with Java/Spring Boot and AWS. Led a 4-engineer product squad as Technical Leader at Crehana (LATAM edtech), owning architecture decisions, cloud infrastructure, and delivery. Hands-on DevOps experience: CI/CD automation, Docker, and Amazon ECS in production. Track record of migrating legacy monoliths to modern API-driven architectures and mentoring engineers. Also working as an AI Engineer: designing MCP (Model Context Protocol) tool integrations, custom AI skills and subagents, and prompt-driven automation on top of agentic coding tools (Claude Code, OpenCode) to run architecture reviews, security remediation, and delivery workflows end-to-end. Founder of GYDI Properties, an end-to-end SaaS product built solo from architecture to deployment.

PROFESSIONAL EXPERIENCE

Founder & Software Architect · [GYDI Properties \(vacation-rental affiliate platform\)](#) 2025 – Present · Remote

- Designed and built an affiliate-marketing SaaS end-to-end: Spring Boot (Java 21) microservices backend, Next.js/React SSR frontend — currently live in beta.
- Architected affiliate tracking with real-time metrics on PostgreSQL (Supabase); media pipeline with Cloudinary.
- Own the full product lifecycle: cloud deployments (Railway, Vercel), CI/CD, observability, and infrastructure cost optimization for a bootstrapped product.
- Built custom Claude Code skills and AI subagents to automate development workflows, including a full security remediation (secret scanning, git-history sanitization across 16 branches) and architecture-standard enforcement.

DevOps Engineer · [Crehana — LATAM edtech](#) 2024 – 2025 · Remote

- Designed CI/CD pipelines automating build, test, and deploy, cutting deployment time from 45 minutes (monolith) to 10 minutes (microservices) and enabling three production releases per week.
- Operated 12 production microservices on Amazon ECS: availability, autoscaling, and resource optimization.
- Containerized services with Docker and standardized environments across dev, staging, and production, eliminating configuration drift.

Technical Leader · [Crehana — LATAM edtech](#) 2022 – 2024 · Remote

- Led the 4-engineer squad in charge of product evolution through the full delivery cycle: architecture, code reviews, sprint planning, and production support.
- Defined scalable cloud-native architectures on AWS, improving platform performance and reducing EC2 instance costs by 20–25%.
- Established engineering standards (code review, testing, deployment practices) adopted across the team; mentored developers, 2 promoted to senior.

Full Stack Developer · [Acsendo — HR-tech SaaS](#) Jan 2019 – Dec 2021 · Bogotá

- Led the migration of a legacy Java EE/JSF monolith to Spring Boot REST APIs with Angular frontends, improving performance and release speed.
- Built and operated AWS services supporting the SaaS platform used by ~120 corporate clients across LATAM.
- Delivered HR modules (competency assessments, workplace climate, organizational goals) in coordination with product and design.

Backend Developer · [Acsendo — HR-tech SaaS](#) Oct 2017 – Dec 2018 · Bogotá

- Developed core talent-management modules with Java EE, JSF, and PrimeFaces.
- Built an advanced PDF reporting engine with Node.js, cutting report generation time from 15 to 3 minutes and improving decision-making data for clients.

Junior Software Developer · [Indra — global IT consulting](#) Jan 2017 – Sep 2017 · Bogotá

- Developed features and resolved defects in enterprise Java/JavaScript applications; supported CI and environment configuration.

PROJECTS

SIADOFA — Public-Sector Information System · [Personal initiative / pre-launch proposal](#) 2026 · *In testing*

- Designed and built a full-stack information system end-to-end: Spring Boot (Java 21) REST API with Hexagonal Architecture, JWT security, Flyway-managed PostgreSQL migrations, and Excel reporting; React 19 + Vite frontend.
- Self-initiated proposal for a public-sector entity, currently in testing ahead of a formal presentation.

TECHNICAL SKILLS

Languages: Java (8–21), JavaScript, TypeScript, SQL

Backend: Spring Boot, Spring Framework, Java EE, Node.js, REST APIs, microservices, event-driven design

Cloud & DevOps: AWS (ECS, EC2, S3, RDS, IAM, CloudWatch), Docker, CI/CD pipelines, Railway, Vercel

AI Engineering: LLM-based agent orchestration, MCP (Model Context Protocol) server & tool integration, prompt engineering, Claude Code & OpenCode (agentic CLI workflows), custom AI skills & subagent development, AI-assisted code review, security remediation, and architecture design

Frontend: React, Next.js (SSR), Angular, Angular Material

Data: PostgreSQL, Supabase, MySQL, Cloudinary

Practices: Technical leadership, architecture design, Agile/Scrum, code review, mentoring

EDUCATION

B.S. in Systems Engineering — Fundación Universitaria Los Libertadores, Bogotá (2016)

CERTIFICATIONS

- Oracle Certified Associate, Java SE 8 Programmer
- Programming in HTML5 with JavaScript and CSS3 — Microsoft
- Claude Code in Action — Anthropic
- Full Stack Web Apps with Angular & Spring 5

LANGUAGES

- Spanish — Native
- English — Intermediate (B1), in active improvement; daily written technical English