

SANTIAGO OLAYO VILLAMIL

Senior Software Engineer | Backend, Cloud & AI Internal Tooling | Product Owner Engineer

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PROFESSIONAL SUMMARY

Systems Engineer and Software Engineer with 4+ years of experience building and improving products for startups and international companies. I work across backend development (Node.js, NestJS, TypeScript, Java, Spring Boot), cloud infrastructure (AWS, Google Cloud Functions), product analytics, and internal tools, with a focus on solving real business problems and making systems and processes work better.

I work closely with product, operations, support, and finance teams to understand their needs and turn ideas into production-ready features. I handle feature delivery end to end, from discussions with stakeholders and technical design (Hexagonal Architecture, DDD) to implementation, database migrations, deployment, and post-release monitoring across backend services, mobile features, and internal tools.

Beyond feature work, I have contributed to moving manual workflows toward AI-assisted processes and improving and maintaining internal team tools, including MCP (Model Context Protocol) tooling to connect with our preferred LLMs, focused plugins and skills for each internal team area, and prompting rules management with Cloudflare AI Gateway. I also use Datadog to monitor services, configure alerts, and investigate production issues, CleverTap to track product events and business metrics, and Metabase to analyze data and support product decisions.

WORK EXPERIENCE

Product Owner Engineer / Senior Backend Engineer

Jan 2025 - Present

GoodRec

Remote

- Handle feature development end to end alongside product, operations, support, and finance, from stakeholder discussions and technical design to cloud deployment (AWS / Cloud Functions) and post-release monitoring.
- Build and maintain backend services (Node.js, NestJS, TypeScript) using Hexagonal Architecture and Domain-Driven Design (DDD), along with mobile features, internal tools, database migrations (PostgreSQL, MongoDB), and concurrency control with atomic Redis locks.
- Contributed to moving manual workflows toward AI-assisted processes and maintaining internal team tools, including MCP (Model Context Protocol) tooling to connect with our preferred LLMs, focused plugins and skills per internal team area, and prompting rules with Cloudflare AI Gateway.
- Monitor distributed services in production, configure alerts, use distributed tracing, and investigate production issues with Datadog.
- Track product events and business metrics with CleverTap and analyze data in Metabase to measure impact and support product decisions.

Backend Developer

Aug 2022 - Jan 2025

Bolsiyo

Remote (Colombia)

- Built and maintained high-concurrency backend services with Node.js, TypeScript, and LoopBack 4 for a mobile platform used by independent merchants.
- Designed schemas and ran migrations in PostgreSQL and MongoDB, optimizing critical wallet and payment queries.
- Developed secure REST APIs, payment gateway integrations, automated tests, and code reviews within an Agile Scrum team.

Full Stack Developer

Jan 2021 - May 2023

Cooltivalo · +COTAS · SLS GROUPS

Colombia

- Developed web applications and backend APIs using JavaScript, TypeScript, Node.js, GraphQL, MySQL, and MongoDB.
- Handled relational data modeling, front-end integrations, and cloud deployments.

EDUCATION

B.S. in Systems Engineering (Ingeniero de Sistemas)

Universidad del Magdalena

2019 - 2025

Santa Marta, Colombia

Professional Scrum & Software Engineering Coursework

Platzi

2022

Online

CORE SKILLS & TECHNOLOGIES

Backend & Languages: TypeScript • Node.js • NestJS • Java • Spring Boot • LoopBack 4 • JavaScript (ES6+) • SQL • REST APIs • GraphQL

Architecture & Distributed Systems: Hexagonal Architecture • Domain-Driven Design (DDD) • Microservices • Clean Architecture • Distributed Locks (Redis) • Concurrency & Async Processing

Applied AI, LLMs & Internal Tooling: Model Context Protocol (MCP) • LLM Integration • Team-Focused Plugins & Skills • Cloudflare AI Gateway (Prompting Rules & Routing) • Internal Workflow Automation

Cloud, Serverless & Observability: AWS (Lambda, EC2, S3, RDS, CloudWatch) • Google Cloud Functions • Datadog (Monitoring, Alerts, APM & Tracing) • Docker • CI/CD & GitHub Actions

Databases & Migrations: PostgreSQL • MongoDB • Redis • MySQL • Schema Migrations & Query Optimization

Product, Analytics & Delivery: End-to-End Product Ownership • CleverTap (Product Events & Business Metrics) • Metabase (Data Analysis & Product Decisions) • Stakeholder Collaboration (Product, Ops, Support, Finance) • Code Reviews & Scrum