

NICOLÁS OSORIO ARIAS

Senior Software Engineer | Full-Stack & AI Product

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SUMMARY

Senior Software Engineer with 7+ years shipping digital product on global-scale platforms, including 5 years working on the assessment and content-authoring areas of a learning platform serving 100M+ users across 70 countries and nearly 1,000 institutions. Contributed to 50+ end-to-end projects, became the team's go-to engineer for performance and accessibility, and designed and prototyped a working GPT-powered feature for automated content generation and grading. Today builds AI-powered products end to end, including a production AI assistant built on Claude. Full-stack across JavaScript/TypeScript, Java, and Python (React, Node.js, AWS), using agentic AI tools (Claude Code) across the full development lifecycle.

SKILLS

AI & Product: AI feature design, structured prompting, LLM API integration (Claude, GPT), agentic AI coding tools (Claude Code) across the full development lifecycle, multi-LLM fluency (Claude, ChatGPT, Gemini), AI-assisted content generation (websites, simulations, art), automated feedback systems, ML-based customer segmentation (scikit-learn)

Languages: JavaScript, TypeScript, Java, Python, Ruby, SQL, HTML5, CSS3

Frontend: React, Vue.js, Angular, responsive design, component architecture, ARIA and semantic markup, rendering performance

Backend & Systems: Node.js, Ruby on Rails, REST APIs, MVC, microservices, distributed systems, scheduled/background jobs (Sidekiq, Redis)

Data: Oracle, SQL Server, PostgreSQL, Redis

Cloud & DevOps: AWS (EC2, S3), CI/CD, Git branching strategies, staging and production deployment

EdTech & Accessibility: Assessment and content-authoring platforms, accessibility compliance (WCAG, Section 508), institutional software for higher education and government

Practices: System design, Agile/Scrum, Kanban, distributed cross-cultural teams, technical mentorship

EXPERIENCE

Freelance — Full-Stack & AI Developer · Technical Consultant

May 2026 – Present

- Built and shipped an AI assistant (Claude) for the Servicios Informáticos website that answers visitor questions from the site's own content and pre-drafts a WhatsApp message, so a lead is one tap away from contacting the business
- Led end-to-end delivery of a corporate B2B website for Servicios Informáticos (requirements discovery, information architecture, design-system definition, and development), built to generate qualified inbound leads
- Rebuilt Rosita Store's e-commerce platform on new infrastructure after the original site went down, designing a solution focused on what the business actually needed to restore its online sales operation
- Built Rosita Store's internal tooling and operational databases, automating the business's commercial processes
- Embedded agentic AI coding tools (Claude Code) across the full project lifecycle (spec, implementation, review, documentation), cutting delivery time versus a traditional development workflow

Blackboard Anthology — Mid-Senior Software Engineer

Dec 2020 – May 2026

- Contributed to 50+ end-to-end projects over 5 years on a global learning platform serving 100M+ registered users across 70 countries and nearly 1,000 institutions, owning scope, ticket planning, and full-stack implementation on the projects I led, within a distributed Agile team (up to 6 engineers, plus QA and Scrum Master)
- Designed and prototyped, on my own initiative, a working AI-assisted assignment and assessment authoring feature powered by GPT (instructor-text enhancement, question generation from a topic or an existing question bank with selectable difficulty level, and suggested grading feedback), demoed end to end as a faster way for instructors to build assessments targeted to a specific topic or class
- Contributed to major improvements to the platform's Rich Text Editor (RTE), the core content-authoring component used by every student and instructor, plus the document viewer's annotation and grading system
- Drove accessibility compliance (WCAG, Section 508) for higher-ed and government customers, reviewing and testing delivered features with screen readers on a per-project basis, fixing them to best practices when needed, and codifying standards into daily practice, a compliance requirement for institutional and government contracts
- Tested the performance of every project delivered over 5 years, documenting and presenting degradation metrics to the performance SME and the team in Definition of Done (DoD) reviews, and running performance test suites to resolve them when needed
- Promoted from Junior to Mid-Senior Engineer within the first year, consistently entrusted with the team's highest-complexity technical work

Fusepong — Full-Stack Developer & Project Lead

Jan 2019 – Jul 2020

- Designed and implemented a client-data-driven segmentation system with ML-based preference prediction (scikit-learn) for Sportlife, a Chilean gym chain, feeding a targeted-campaign system to expand customer retention, alongside a full booking module and fingerprint access control
- Shipped, as the sole developer, Easymail, a shipping-management platform (backend, web back office, iOS/Android app), in 30 days, alongside Fusecurity, a guard-post monitoring platform with push notifications and mobile geolocation
- Deployed and administered AWS infrastructure (EC2, S3) across three production products: web servers, domains, HTTPS certificates, storage microservices

EDUCATION

B.S. in Systems Engineering — Escuela Colombiana de Ingeniería Julio Garavito, Bogotá, Colombia, 2019 | Continuing education: VR game development certification (2019); Unity/Unreal Engine projects; LinkedIn Learning: Developing Secure Software and Programming Foundations: Secure Coding (2023)

LANGUAGES

Spanish: Native | English: Professional working proficiency (B2), with 5 years of daily professional use in an English-speaking corporate environment

ACTIVITIES

Competitive programming: 2 university programming marathons, 2 local game jams, 1 global game jam

Teaching Assistant, Systems Engineering Lab, Escuela Colombiana de Ingeniería Julio Garavito (Aug – Dec 2018): student support, lab maintenance, technical assistance