

DIEGO HERRERA SAMANIEGO

Senior Software Engineer (AI-Native) | TypeScript / JavaScript / OOP | Product Engineering

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SUMMARY

Senior Software Engineer and Product-minded builder with 12+ years of experience delivering web platforms across digital media, SaaS, IoT, mobility, hospitality, and business intelligence. Strong in JavaScript, TypeScript, Angular, React, Node.js, API-driven systems, object-oriented design, CI/CD delivery, AWS-oriented architectures, performance-sensitive interfaces, and remote product execution. Currently applying AI-native development workflows with Claude Code, ChatGPT, agent-assisted planning, GitHub Actions, Vercel, Supabase, workflow automation, and human-in-the-loop architecture review to accelerate product delivery without sacrificing quality, maintainability, or engineering judgment.

ROLE ALIGNMENT FOR AI-NATIVE SENIOR SOFTWARE ENGINEERING

- AI-native builder: actively uses Claude Code, ChatGPT, GitHub Copilot, agent-assisted planning, architecture review loops, and automation tools to move from ambiguous requirements to implemented product faster.
- Full-stack ownership: comfortable across frontend, APIs, CI/CD, AWS-oriented deployment thinking, Linux command line, testing, documentation, and production-quality release readiness.
- Product impact: strong fit for fast-moving education/product teams that value personal responsibility, measurable outcomes, accessibility, performance, SEO-aware web delivery, and iterative improvement.
- Learning velocity: repeatedly adapted to new stacks and domains - digital media, SaaS/payments, IoT, hospitality, mobility, and BI - while staying hands-on and delivery-focused.

TARGETED SKILLS

Core Engineering

JavaScript, TypeScript, OOP, C#.NET exposure, algorithms & data structures, clean code, automated testing, Linux command line.

Frontend & Product

Angular, React, RxJS, HTML5, CSS3/SCSS, responsive UI, accessibility, performance, SEO-aware web delivery, UX collaboration.

Backend, Cloud & CI/CD

Node.js, REST APIs, GraphQL, Laravel/PHP, MongoDB, MySQL, Redis, PostgreSQL/Supabase, AWS, Lambda/RDS/EC2 exposure, GitHub Actions, AWS CodeDeploy, Docker, Vercel, Netlify.

AI-Native Workflow

Claude Code, ChatGPT, GitHub Copilot, agentic coding workflows, AI-assisted debugging/refactoring, architecture validation, context engineering, prompt engineering, Make/n8n workflow automation exploration.

Product & Leadership

Product thinking, 0-to-1 execution, technical leadership, requirements translation, stakeholder communication, mentoring, startup ownership, async remote collaboration, founder-speed delivery.

CURRENT AI-NATIVE PRODUCT ENGINEERING WORK

Independent AI-native engineering initiative: Designing a reusable software foundation for fast MVP delivery using modular starters, service-oriented boundaries, reusable capabilities, adapters/providers, and agent-assisted implementation workflows. The work combines product discovery, functional specs, architecture planning, coding-agent orchestration, CI/CD setup, and review guardrails to turn ambiguous business ideas into shippable technical foundations.

- Use Claude Code and ChatGPT as AI-native engineering collaborators for task decomposition, implementation planning, refactoring, test scenarios, documentation, and architectural critique.
- Coordinate agent-assisted development loops: define specs, split work into executable units, validate generated code, catch overengineering, and keep the implementation aligned with product scope.
- Current hands-on stack includes TypeScript/Node.js concepts, GitHub Actions, Vercel, Supabase/PostgreSQL, Make/n8n workflow automation patterns, API integrations, modular architecture, and deployment-oriented delivery.

PROFESSIONAL EXPERIENCE

Senior Frontend / AI-Native Product Engineer Nov 2022 - Present

NOMAD CMS | Remote / U.S.-based AWS Partner digital media platform

Impact: Helped turn complex AWS-powered digital media workflows into stable, usable frontend products while progressively integrating AI-assisted development workflows to increase delivery speed, analysis quality, and implementation confidence.

- Built and evolved modular Angular/TypeScript applications inside an NX monorepo, designing reusable patterns and maintainable boundaries for complex media workflows.
- Solved product and integration challenges involving AWS-powered platform capabilities, Adobe-related environments, media players, APIs, UX constraints, migrations, and custom JavaScript when standard framework patterns were not enough.
- Used AI-assisted workflows for requirements analysis, debugging, refactoring, documentation, test scenario thinking, implementation planning, and architectural validation while maintaining human ownership of code quality.
- Collaborated with product, UX, QA, backend engineers, and frontend leadership to convert unclear requirements into usable, production-ready features in a remote, high-quality environment.
- Worked with CI/CD-aware delivery practices and deployment coordination, including GitHub-based workflows and AWS-oriented release thinking.

Software Developer Aug 2021 - Nov 2022

Rockstar Coders | Classy.org / GoFundMe Pro | Remote

Impact: Joined specialized product pods for a nonprofit fundraising SaaS platform, helping move complex SaaS/payment-oriented initiatives from technical ambiguity into working production features under tight timelines.

- Contributed to frontend and fullstack work using React, Node.js, Laravel, GraphQL, JavaScript, and API integrations in a distributed product team.
- Helped deliver an advanced crypto payments initiative in approximately one month, working through backend, frontend, GraphQL, and external embed challenges.
- Improved transactional user flows where reliability, validation, usability, and integration behavior directly affected business outcomes.

Lead Fullstack Developer Aug 2018 - Jun 2021

Knetik (CIMA Group) | TrustHab real-time IoT platform

Impact: Led a 4-person engineering team contributing to a real-time smart-building platform, scaling from hundreds toward 1,000+ concurrent users/device interactions.

- Led and mentored a local engineering team while coordinating with U.S.-based stakeholders and staying hands-on across frontend, backend, integration, and delivery decisions.

- Built real-time, event-driven IoT features for thermostats, sensors, access control, and live device-management workflows using Angular, Node.js, TypeScript, APIs, asynchronous workflows, and microservices-oriented components.
- Worked with Docker, CI/CD awareness, GraphQL, queues, and Kafka-based streaming patterns to support real-time device communication and operational reliability.
- Solved concurrency, reliability, UX, and integration challenges where technical decisions affected real-world property operations.

Lead Frontend Developer Aug 2017 - Aug 2018

Norelian | GuestHub hospitality platform

Impact: Helped transform frontend delivery for enterprise hospitality applications, reducing deployment cycles from more than one week to less than half a day through better CI/CD and release validation workflows.

- Led frontend development for hotel operations and guest-experience workflows, aligning Angular implementation with UX, backend integration, stakeholders, and business requirements.
- Improved Azure DevOps release validation and CI/CD workflows, reducing release friction and enabling faster delivery.
- Built scalable frontend features while maintaining readability, maintainability, performance, and delivery quality under real business pressure.

Senior Developer Dec 2015 - Jul 2017

Citytech | EasyBrok insurance platform

Impact: Built business-critical web modules for a regulated insurance and brokerage platform sponsored by Aseguradora del Sur.

- Developed frontend and fullstack features using Angular, Laravel, PHP, MySQL, and JavaScript under strict quality standards and delivery timelines.
- Strengthened reliable product-flow delivery in environments where business rules, data integrity, and disciplined releases were essential.

Founding Partner / Technology & Product Lead Jul 2013 - Aug 2019

Zigo Taxi | Mobility startup in Guayaquil

Impact: Co-founded a mobility startup combining product vision, technical execution, operations, and go-to-market decisions in a real startup environment.

- Designed and implemented web and mobile platforms using Node.js, MongoDB, JavaScript, Redis, and Android while supporting business development and operations.
- Learned to make practical product and technology decisions with limited resources, changing priorities, direct user feedback, and pressure to ship.

EARLIER EXPERIENCE

DB Analyst | Ministerio Coordinador de Seguridad | Jun 2015 - Sep 2015 - Managed and improved databases and BI systems for national security-sector reporting.

Development and Project Management | Mentes Colaborativas S.A. | Aug 2014 - Nov 2014 - Built ECU 911 indicator management and visualization tools using PHP, Laravel, and multidimensional data structures.

Founder Partner & CTO | Ezone S.A. / Luovus | Feb 2008 - Jul 2011 - Led web application and digital communication initiatives; part of the team recognized with the Eugenio Espejo award in 2009.

EDUCATION & CERTIFICATIONS

MBA - Universidad Internacional de la Rioja, Spain | Computer Engineer, Multimedia Systems Specialist - ESPOL | Angular Intermediate Certificate - HackerRank | Angular Testing Masterclass - Angular University | Developing Innovative Ideas for New Companies - University of Maryland

English: Professional working proficiency | Strong fit for remote LATAM roles requiring ownership, AI-native velocity, and product-minded engineering