

Camilo Castro

Senior Full Stack Software Engineer

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Senior Full Stack Software Engineer with 15+ years of experience turning complex business requirements into reliable, maintainable production systems. Highly effective across the full software development lifecycle, from designing and building end-to-end solutions to stepping into large or unfamiliar codebases, quickly understanding how they work, diagnosing difficult problems, and delivering pragmatic improvements that balance technical quality with business impact. Strong backend foundation in PHP/Laravel and Node.js, complemented by modern frontend development with Vue.js and React, plus experience in RESTful APIs, SQL/NoSQL databases, system design, performance optimization, and cloud environments.

EXPERIENCE

Senior Developer · Infracommerce LATAM Nov 2019 - May 2026

- Sustained reliable, revenue-critical e-commerce operations for 10+ enterprise clients, delivering Magento 2 / Adobe Commerce solutions across 5+ multidisciplinary squads and diverse production codebases in retail, consumer goods, wine & spirits, and public-sector environments.
- Connected critical purchase-to-fulfillment processes with external systems through integrations with payment providers, ERPs, shipping, marketing and affiliate services, enabling payments, orders and post-purchase operations to work together while supporting commercial decisions through operational reporting.
- Improved customer-registration performance by ~20% by redesigning a synchronous loyalty integration as an asynchronous RabbitMQ workflow, removing external API latency from the critical user path and reducing friction in the customer acquisition and conversion funnel.
- Reduced production disruption and performance bottlenecks by rapidly identifying root causes in unfamiliar codebases and optimizing SQL queries, cron processes, caching and custom modules using Xdebug, New Relic and production logs.
- Turned complex client requirements into production-ready e-commerce solutions across checkout, customer workflows, integrations and platform automation using PHP, Magento 2, REST APIs, queues, cron jobs and ORM/data models, balancing time-to-market with maintainable engineering practices.
- Strengthened engineering quality and knowledge sharing through code reviews, technical collaboration and automated testing with PHPUnit and Selenium/Python, continuously exchanging knowledge across diverse codebases, architectures and business domains.

Developer · ViveLab Bogotá Nov 2016 - Apr 2020

- Led the development team building UNinnova, an open-innovation platform for Universidad Nacional de Colombia that enabled organizations to launch real-world challenges and the university community to submit, vote on and co-create solutions, supporting 3,000+ ideas across a multi-stage innovation workflow.
- Expanded access to academic, employment and cultural opportunities for young people in Bogotá by developing Distrito Joven / Banco de Talentos y Oportunidades del Distrito, a public-facing platform for the Bogotá city government built with Laravel and supported by an Ionic mobile application.
- Built two blockchain prototypes to explore trust, transparency and traceability in public-sector processes, including an Ethereum-based voting system and a land-registry solution for Colombia's National Land Agency, using Node.js/Express, Solidity, Vue.js, PostgreSQL/MongoDB and Docker.
- Turned institutional and public-sector needs into working digital products, contributing across product discovery, technical implementation and delivery for Universidad Nacional de Colombia, Bogotá's city government and the National Land Agency while adapting across Laravel, Node.js, Vue.js, mobile and blockchain technologies.

Developer · Zion Business Group Apr 2016 - Sep 2016

- Built the backend for a digital wallet product using Laravel, designing REST APIs consumed by a Unity client and developing its administrative dashboard with Blade, while also contributing fixes and enhancements to a Java-based Sodexo Pass application.

Developer · Brainz S.A. Nov 2013 - Apr 2016

- Developed backend systems and features for production games, including Mark of the Dragon (~600K players), implementing authentication, progression, cross-device sync, currencies, purchases, leaderboards and real-time chat with PHP/Zend, MongoDB, Redis, Node.js and WebSockets.
- Improved backend performance and resource efficiency by eliminating N+1 queries, refactoring expensive nested processing and optimizing database access and application code to improve responsiveness under demanding game workloads.

- Contributed to Brainzorm, a reusable backend toolchain for game development, implementing shared capabilities with Phalcon/PHP that standardized recurring functionality across titles and reduced duplicated engineering effort.
- Designed MongoDB data models and supported backend delivery end-to-end, integrating Unity clients with backend services, deploying AWS EC2 infrastructure, and applying Scrum, clean-code and unit-testing practices.

Development Analyst → Senior Development Analyst · Ronda S.A.

Feb 2011 - Jun 2012
Mar 2013 - Nov 2013

- Transitioned from IT support into software development by independently building an internal ticketing platform with PHP, PostgreSQL and JavaScript, turning a self-initiated solution to an operational need into the starting point of my development career.
- Built and extended Openbravo ERP capabilities with Java, translating business requirements into modules, reports, data-model changes and integrations across Oracle/PostgreSQL environments, while contributing to a major platform upgrade and retail POS integration.
- Advanced into senior development and infrastructure responsibilities, coordinating development work and supporting deployments and on-premise systems including Tomcat application servers, virtualized database infrastructure and Elastix-based telephony.

Development Analyst · RSN Computación

Jun 2012 - Mar 2013

- Delivered business functionality across web and mobile for the InformaWeb ERP, translating client requirements into tested PHP/MySQL features and building a PhoneGap/Cordova mobile application for the sales module, while deploying releases to customer production environments.

PROJECTS

Pharmalytics

- Designed and built Pharmalytics, a domain-specific pharmaceutical production management platform, translating real laboratory workflows into an integrated system covering raw materials, suppliers, warehouse stock, formulations, production orders, batch traceability and quality controls aligned with INVIMA regulatory requirements.
- Owned system design and end-to-end delivery using Laravel 13, PHP 8.4, Vue.js, Inertia.js, PostgreSQL 16 and Tailwind CSS, including REST API design, role-based access control, automated testing with Pest, Dockerized environments, and a GitHub Actions CI/CD pipeline that builds, tests and securely deploys the application to GCP Cloud Run.

FreedomSeed

- Designed FreedomSeed as a reusable foundation for rapidly building multiple Android applications, using hexagonal architecture and modular components to separate application logic from external providers and reduce duplicated implementation across apps, including interchangeable adapters for advertising, backend communication and shared UI capabilities.

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- Designed and built a bilingual production-grade developer portfolio with Laravel 13, PHP 8.4, Inertia.js, Vue 3 and Tailwind CSS, implementing SSR, accessibility and defense-in-depth security, with automated testing and security audits in a GitHub Actions CI/CD pipeline using secretless Workload Identity Federation to deploy containerized releases to GCP Cloud Run.

SKILLS

Backend & Architecture: PHP, Laravel, Node.js, TypeScript, Java, RESTful API Design, OpenAPI/Swagger, Microservices, System Design, Hexagonal Architecture, Performance Optimization

Frontend: Vue.js, React, Inertia.js, JavaScript, HTML, CSS, Tailwind CSS

Databases & Data: PostgreSQL, MySQL, MongoDB, Redis, SQL, Data Modeling, Query Optimization, Caching Strategies

Cloud & DevOps: Docker, AWS (EC2), GCP (Cloud Run), Azure, Git, GitHub Actions, CI/CD Pipelines, RabbitMQ, Linux

Testing & Quality: PHPUnit, Pest, Vitest, Selenium, Integration Testing, E2E Testing, Debugging, Xdebug, New Relic

Engineering Practices: Agile/Scrum, Secure Coding, Code Review, SOLID, Clean Code, Technical Leadership, AI-assisted spec-driven development

LANGUAGES

Spanish: Native | **English:** B2 (Upper-Intermediate)

EDUCATION

Universidad Distrital Francisco José de Caldas

B.Sc. in Systems Engineering

Thesis: repository.udistrital.edu.co/items/f3be3f48-0006-4f99-97b4-59110bc66720