Jorge Castillo

Senior Full-Stack Engineer

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Professional Summary

Senior Full-Stack Engineer who turns complex product requirements into dependable software. Experienced with TypeScript, React, Node.js, and Ruby on Rails, with a focus on clear architecture, thoughtful domain modeling, and practical delivery. Builds independent products and open-source tools, and works closely with product and engineering teams.

Technical Skills

Languages & Product	TypeScript, NestJS, Node.js, React, Next.js, Ruby on Rails, Vue.js, PostgreSQL
Architecture & Data	Clean Architecture, Domain-Driven Design (DDD), Hexagonal Architecture, CQRS, Event-Driven, Firestore, IndexedDB, Redis, RabbitMQ, GraphQL
Cloud & Delivery	AWS (Lambda, S3, Cognito), GCP / Firebase, Docker, GitHub Actions, Jest, RSpec, Neovim

Professional Experience

BairesDev — Full-Stack Software Engineer *Sep 2026 – Present*

- For Stitch Fix, contributed to Shopex sorting and pricing capabilities, as well as features for saving and listing outfits.
- Contributed to freshness-tag functionality in Foundational Styling, helping stylists disregard outdated preferences.
- Created architectural documentation visualizing asynchronous flows and their business implications.

Rankmi — Software Developer *Nov 2025 – Mar 2026 | Remote*

- Authored engineering standards, technical documentation, and system blueprints to improve cross-team collaboration.
- Designed architectural roadmaps for high-concurrency modules, prioritizing scalability and maintainability.
- Built and maintained shared libraries that reduced code duplication by 40% across projects.

Goods & Services — Software Engineer *Jul 2022 – Mar 2025 | Remote*

- Improved frontend performance for Becton Dickinson by resolving state-management bottlenecks, applying memoization, and expanding Jest coverage.
- Co-developed EverFi's REST API V3, centralizing business logic and improving response consistency across services.
- Optimized SQL queries to reduce database load and accelerate report generation.

Columbus — Frontend Lead *Jul 2021 – Jul 2022 | Remote*

- Led frontend engineering and built a reusable application foundation using Ports and Adapters architecture.
- Designed RabbitMQ-based asynchronous services and contributed Python/Flask REST services.
- Remediated vulnerabilities found through penetration testing and established development and documentation practices.

Michelada — Ruby on Rails Developer *Mar 2021 – Jul 2021 | Remote*

- Stabilized Amazon Chime live video streaming for a medical platform and improved resilience through automated testing.
- Refactored application code and optimized relational queries to improve maintainability and response times.

Independent Software Consultant / Freelance Engineer *Jan 2018 – Mar 2021 | Remote*

- Delivered Domit Express, a three-sided delivery platform with a Ruby on Rails API, two React Native apps, Wompi payments, and Firebase notifications.
- Built a Python video-compression service for an e-learning platform and delivered e-commerce storefronts with Next.js/Gatsby, Firebase, Stripe, and EnviaYa! logistics.
- Rescued legacy systems, resolved PostgreSQL migration failures, and developed cross-platform applications with React Native and .NET MAUI.

Independent Products

Simply POS — Creator & Senior Full-Stack Engineer *Jun 2025 – Present*

Built a multi-tenant restaurant platform connecting orders, kitchen workflows, inventory, staff, and reporting. The NestJS, Next.js, and Firestore system includes role-based access, real-time updates, Mercado Pago payments, and hardware printing. Reported outcomes include 30% faster service and 25% fewer kitchen errors.

Simply Track — Creator

Built a local-first personal finance PWA for transactions, budgets, savings goals, and forecasts, with an encrypted on-device vault, offline support, and optional encrypted Google Drive sync.

Simply Logs — Creator

Created a desktop app for Vercel and Netlify runtime logs, deployment status, live log output, and public URL health checks.

Simply Habits — Creator

Built an offline-first habit tracker with scheduled routines, streaks, 12-week insights, Web Push reminders, and an on-device vault with optional encrypted Firestore sync.

Simply Pet — Creator

Developed a Rails platform for shelters and foster homes, with role-aware shelter memberships, foster profiles, Google sign-in, and image uploads backed by Google Cloud Storage.

Open Source Contributions

TypeScript / Node.js

- **@schorts/shared-kernel** [npm] — Modular DDD foundation with Aggregates, Entities, Value Objects, Domain Events, Result types, CQRS buses, Sagas, Event Bus (retries + dead-letter), RBAC/ABAC, Unit of Work, Criteria builder, and framework-agnostic interfaces for Auth, DAO, HTTP, Pub-Sub, i18n, state management, guided tours, and structured logging. *Sep 2025 – Present.*
- **React Clean Architecture** [github] — Production-ready Clean Architecture + DDD reference implementation for React/TypeScript featuring CQRS, application-owned ports, replaceable infrastructure (IndexedDB), tag-based cache invalidation, and strict dependency inversion. *2025 – Present.*
- **@schorts/firestore-admin-dao** [npm] — Type-safe server-side DAO for Cloud Firestore (Firebase Admin SDK) with full CRUD, Criteria-based querying, and toPrimitives/fromPrimitives entity mapping. *Oct 2025 – Jul 2026.*
- **@schorts/indexed-db-dao** [npm] — Type-safe, domain-driven IndexedDB abstraction with Criteria querying and Unit of Work transactions for offline-first browser applications. *Apr 2026 – Aug 2026.*
- **@schorts/browser-cache** [npm] — Browser Cache API adapter implementing the shared-kernel `Cache<T>` interface with TTL, tag-based invalidation, and an IdempotencyStore for safe retries. *Apr 2026 – Jul 2026.*
- **@schorts/pub-sub-window** [npm] — Lightweight browser Pub/Sub built on `window.dispatchEvent` implementing shared-kernel Subscription/Publisher interfaces for decoupled cross-component events. *Oct 2025 – May 2026.*
- **@schorts/driver-tour-guide** [npm] — Framework-agnostic guided-tour adapter built on driver.js, implementing the shared-kernel TourGuide interface. Works with React, Vue, Svelte, or vanilla JS. *Oct 2025 – Nov 2025.*

CLI & Tooling

- **@schorts/firestore-migrator** [github] — Declarative CLI migration tool for Cloud Firestore supporting field add/remove/transform operations, dry-run previews, status tracking, batched writes, and safe rollbacks. *Aug 2026 – Present.*
- **Schorts CLI** [github] — Template-driven Bash CLI that generates TypeScript DDD boilerplate (CQRS commands/queries/handlers, aggregates, entities, value objects, domain events, criteria, exceptions) with bounded-context and TOML-based config support. *Jul 2026 – Present.*
- **Simply CLI** [github] — Shell-based CLI for bootstrapping and syncing AI project files (rules, skills, AGENTS.md) across environments, with diagnostic commands and Makefile targets. *Aug 2026 – Present.*

PHP

- **schorts/shared-kernel** [packagist] — PHP DDD shared kernel with immutable Value Objects, Domain Events, Aggregate Roots, CQRS Query bus (InMemory with caching/logging/metrics middleware), DAO contracts, Unit of Work, and i18n interfaces. *2026 – Present.*
- **schorts/firestore-dao** [packagist] — Domain-driven Firestore DAO for PHP with Criteria queries, geospatial Vincenty-distance support, soft/hard deletes, restore, and transaction-aware Unit of Work. *2026 – Present.*

Languages & Leadership

Languages	Spanish (Native) · English (Professional Working Proficiency)
Leadership	Mentoring engineers, establishing CI/CD practices, architectural governance, and design-system standards.