

Juan Pablo Cabral

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Full-Stack Engineer | AI Product and E-Commerce Systems Developer

PROFESSIONAL SUMMARY

Full-stack engineer with 10+ years of experience building e-commerce systems, internal business applications, AI-enabled products, and desktop software across web, cloud, and local-runtime environments. Recent work spans Shopify applications, multi-tenant commerce platforms, Electron desktop products, AI-assisted retail experiences, RAG systems, and deployment-oriented full-stack delivery using modern TypeScript, Python, Node.js, React, Next.js, Remix, FastAPI, PostgreSQL, SQLite, Prisma, Docker, and cloud tooling. Regularly incorporates AI into both product development and engineering workflow, including LLM-assisted implementation, prompt iteration, local-model experimentation, and AI-native developer tools such as Cursor, Claude, Codex, Warp, and Antigravity where appropriate. Brings practical business context from long-term collaboration with sales, support, and operations teams, allowing technical decisions to align with real-world business needs and user workflows.

CORE SKILLS

- Frontend: React, Next.js, Remix, Vite, Tailwind CSS, Framer Motion, Radix UI, Shopify Polaris, App Bridge, HeroUI, shadcn-style components, TanStack Query, TanStack Table, React Router, React Hook Form, responsive layouts, component systems, admin dashboards, buyer-facing storefronts.
- Backend: Node.js, Express, FastAPI, tRPC, API route handlers, REST APIs, GraphQL integrations, Bun local workflows, Python service design, background sync and scheduler workflows, CLI services, server-only utility modules.
- Data and persistence: PostgreSQL, SQLite, Prisma ORM, pg, localStorage, JSON-backed configuration, repository patterns, FTS5, cache layers, Redis-capable architectures, Cloud SQL, Google Cloud Storage, Cloudflare R2, Amazon S3.
- AI and automation: OpenAI, Anthropic, Ollama, Google Gemini, Amazon Nova, ElevenLabs, Edge TTS, Piper TTS, AWS Bedrock, Rekognition, RAG pipelines, local model workflows, prompt versioning, AI caching, LLM-assisted engineering workflows, MCP-style tooling, Cursor, Claude, Codex, Warp, Antigravity.
- Deployment and DevOps: Docker, Git, GitHub workflows, Dokploy, VPS deployment, GCP deployment, Google Cloud Run, Google Cloud Build, Google Cloud Storage, Netlify, Vercel-oriented deployments, self-hosting, Electron packaging and notarization workflows.
- Testing and tooling: TypeScript, Zod, Vitest, Playwright, ESLint, Prettier, Biome, esbuild, Webpack, Sharp, pnpm, npm, Yarn Berry, Pytest, Ruff, schema-driven mapping, quality gates, smoke tests, export tests.

PROFESSIONAL EXPERIENCE

Sunvision Group - Lead Full-Stack Developer

Miami, FL | Full-time / Freelance | May 2010 - Present

Lead full-stack development across e-commerce platforms, marketplace integrations, internal software tools, and deployment-oriented application delivery for a designer eyewear company with a strong online presence. Built and maintained online systems supporting commercial operations, sales and marketing workflows, and multi-department internal processes while owning both technical implementation and practical business problem solving.

Selected responsibilities and impact:

- Built and maintained custom internal applications and operational tooling for multiple departments, including sales, marketing, operations, catalog workflows, product data, and customer-facing online systems.
- Developed and supported e-commerce solutions across Shopify, WooCommerce, WordPress, and BigCommerce ecosystems, including catalog presentation, admin workflows, integrations, data exports, image/media handling, orders, shipments, customers, and reporting.
- Worked across front-end, back-end, UX, platform integrations, data workflows, deployment, troubleshooting, and long-term maintenance responsibilities in a production business environment.
- Implemented API integrations, product synchronization workflows, admin dashboards, data import/export flows, image processing, and workflow automation to reduce manual operational work.
- Used TypeScript, JavaScript, Python, React, Next.js, Node.js, Express, FastAPI, Prisma, PostgreSQL, SQLite, Tailwind CSS, Docker, Git, cloud services, and AI-assisted development tools across internal and customer-facing projects.
- Integrated AI-assisted development practices into day-to-day engineering work, using coding assistants and AI-native IDE workflows to accelerate implementation, refactoring, debugging, research, documentation, and iteration across product and internal application builds.

T4 Flooring Corp - Store Manager and Web Developer

Clermont, FL | Full-time | Feb 2005 - Apr 2009

Managed store operations, sales support, project coordination, customer communication, and web presence development for a flooring business with nationwide support activity. Built promotions and online-facing materials while managing the Clermont, Florida location for three years, providing an early foundation in digital commerce, customer communication, operations ownership, and practical business software thinking.

- Managed the Clermont, Florida location for three years while supporting sales, customer communication, project coordination, and daily operations.
- Built promotions and online-facing materials, gaining early experience in web publishing, digital commerce, local business operations, and customer-support workflows.
- Combined hands-on operations ownership with technical responsibilities, creating a foundation for software work focused on practical business outcomes.

SELECTED PROJECTS

Commerce Canvas - Multi-Tenant Commerce Operations Platform

Full-stack commerce workspace composed of a Vite React admin dashboard, a Next.js storefront, and an Express backend exposing both tRPC and REST interfaces. The system supports tenant-scoped catalog operations, CMS content management, storefront configuration, customers, orders, shipments, roles, audit history, and production deployment to Google Cloud Run.

- React, TypeScript, Vite, Next.js, Tailwind CSS, Radix UI, HeroUI, Lucide, Font Awesome, Tabler, Iconify, TanStack Query, TanStack Table, React Hook Form, Zod.
- Express, tRPC v11, Bun for local development, Node.js for compiled production runtime, Prisma ORM, PostgreSQL, JWT admin authentication, cookie-based storefront sessions.
- Multer and Sharp for uploads and image processing, CSV and Excel export flows, CMS/media handling, and Google Cloud Storage-backed assets in production.
- Vitest and Playwright coverage across storefront, content, order, CMS, and smoke-test workflows.
- Production deployment architecture targeting Google Cloud Run and Google Cloud Build, with Cloud SQL-backed PostgreSQL and durable CMS asset storage in Google Cloud Storage.

NovaVision - AI Eyewear Try-On and Merchandising Platform

AI-assisted eyewear shopping and virtual try-on product that combines a Next.js frontend with a FastAPI backend for image analysis, product merchandising, generative try-on images, and asynchronous video generation. The application supports product browsing, portrait upload, style analysis, shareable try-on sessions, product-description generation, stylist assistant flows, and product video generation.

- Next.js 16 App Router, React 19, TypeScript, Tailwind CSS 4, Framer Motion, Lucide React, localStorage-based client state.
- FastAPI, Pydantic, Uvicorn, boto3, httpx, Pillow, NumPy, Google GenAI SDK, Redis with SQLite fallback, and optional TypeScript image pipeline components using Sharp and AWS SDKs.
- AWS Bedrock, Amazon Nova, Nova Reel, Nova Act, Rekognition, Amazon S3, Gemini image composition, and RAG-backed prompt enrichment using LlamaIndex and Pinecone.
- Multi-layer caching for generated outputs, prompt-versioned cache keys, deterministic preprocessing, and quality gates for try-on image generation.
- Designed to support production hardening with durable storage, stronger auth boundaries, structured logging, and persistent shared session state.

Shopify Hoover - Shopify Catalog Analysis and Sync Platform

Next.js application for collecting, enriching, exporting, and synchronizing public Shopify catalog data across analyzer and persistent admin workflows. Built to ingest storefront product data without requiring Shopify Admin API credentials when public product JSON is available, and to support export, sync, and operational visibility workflows.

- Next.js 15 App Router, React 19, TypeScript 5, Tailwind CSS 4, HeroUI, Iconify, Zod.
- PostgreSQL 16 with pg, node-cron scheduling, p-limit concurrency control, p-retry backoff, localStorage plus lz-string compressed cache, ExcelJS, Sharp, and Google Apps Script integration.
- Cloudflare R2 integration through AWS S3 SDK for optional product image mirroring and a persistent sync engine that deduplicates products by UPC.
- Vitest coverage, Docker-based deployment support, Next standalone production builds, and Vercel-specific production configuration.
- Implemented public-first ingestion, resumable processing, fail-soft product handling, schema-driven mapping, priority-based conflict resolution, and server-side heavy export processing.

Smart Linesheets - Shopify Embedded B2B Catalog App

Multi-tenant Shopify-embedded application for generating and publishing wholesale linesheets from live Shopify product data, serving both merchants inside Shopify Admin and buyers through public catalog pages. Built around a hybrid local-plus-live-data architecture that merges persisted configuration with fresh Shopify GraphQL data at render time.

- Remix 2, React 18, Vite, Tailwind CSS v4, Shopify Polaris, App Bridge, Node.js, Prisma ORM, SQLite with PostgreSQL-ready migrations, TanStack React Table.
- Shopify GraphQL Admin API integration, server-only utility modules, Remix loaders and actions, and strict multi-tenant scoping by shop session.
- Buyer-facing responsive catalog views with grid, list, and table layouts and merchant-facing configuration workflows inside Shopify Admin.

Mint Speech - Cross-Platform AI Text-to-Speech Desktop App

Electron-based desktop application for macOS and Windows that unifies multiple cloud and local speech engines behind a polished tray-first experience with native integrations and licensing support. The app combines a Next.js renderer with Electron main-process orchestration and resilient local persistence.

- Electron, React 19, Next.js 15 App Router, Tailwind CSS, Framer Motion, Radix UI, Lucide React, Node 20, TypeScript, Yarn Berry.
- Edge TTS, Google Gemini TTS, ElevenLabs, Piper local TTS, Lemon Squeezy licensing, esbuild, electron-builder, Vitest, Playwright.
- Implemented preload bridging, tray and dock integrations, global shortcuts, local HTTP serving, fallback storage, quota-aware history, code signing, notarization, and Mac App Store compatibility support.

Clipstate - Clipboard Manager with AI Actions

Electron clipboard utility focused on macOS workflows, built to capture clipboard history, support fast local retrieval, and apply AI actions to selected clipboard entries. The app uses a multi-process Electron architecture with IPC-driven interactions and local persistence for history, search, settings, and AI result caching.

- Electron, Node.js, Webpack, HTML/CSS/JavaScript, SQLite, electron-store, Electron Forge.
- AI provider support for OpenAI, Anthropic, and local Ollama, including text classification and per-clip AI caching.

- Implemented tray behavior, clipboard polling, global shortcuts, migrations, repository abstractions, and configurable provider routing.

Medusa v2 RAG - Developer Documentation Retrieval System

Python-based RAG service for indexing Medusa v2 documentation and example code into a searchable knowledge base exposed through both CLI and FastAPI interfaces. Designed for grounded developer assistance using hybrid retrieval, local embeddings, and optional local answer generation.

- Python 3.11+, FastAPI, Uvicorn, Pydantic, httpx, BeautifulSoup, XML parsing, SQLite, FTS5, NumPy, pydantic-settings.
- Ollama for embeddings and local answer generation, deterministic embedding fallback when Ollama is unavailable, and hybrid vector plus lexical retrieval.
- Pytest and Ruff for testing and linting, CLI tooling for ingest, query, and serve workflows, and a modular indexing pipeline separated into fetching, chunking, embedding, retrieval, generation, and persistence stages.

TECHNOLOGY INVENTORY

Category	Technologies / Methods
Languages	TypeScript, JavaScript, Python, HTML, CSS, SQL, TOML, JSON, Markdown.
Frontend	React, Next.js, Remix, Vite, Tailwind CSS, Framer Motion, Radix UI, Shopify Polaris, HeroUI, shadcn-style components, TanStack Query, TanStack Table, React Router, React Hook Form, responsive layouts, component systems, dashboards, storefronts, admin interfaces.
Backend	Node.js, Express, FastAPI, tRPC, Bun, Uvicorn, REST APIs, GraphQL integrations, API routes, schedulers, CLI services, background workers, server-only utilities, repository patterns.
Databases and storage	PostgreSQL, SQLite, Prisma ORM, pg, FTS5, Redis-capable caches, localStorage, JSON configuration, Google Cloud Storage, Cloudflare R2, Amazon S3, Cloud SQL, durable CMS asset storage.
AI and LLM	OpenAI, Anthropic, Ollama, Google Gemini, Amazon Nova, AWS Bedrock, Rekognition, ElevenLabs, Edge TTS, Piper, RAG pipelines, Pinecone, LlamaIndex, prompt versioning, AI caching, local model workflows, Cursor, Claude, Codex, Warp, Antigravity, MCP-style developer workflows.
Testing and tooling	Vitest, Playwright, Pytest, Ruff, ESLint, Prettier, Biome, Zod, esbuild, Webpack, Sharp, ExcelJS, pnpm, npm, Yarn Berry, schema validation, smoke tests, quality gates, export tests, CI/CD-oriented workflows.
Deployment and infrastructure	Docker, Git, GitHub workflows, Dokploy, VPS deployment, GCP deployment, Google Cloud Run, Google Cloud Build, Cloud SQL, Google Cloud Storage, Netlify, Vercel-oriented deployments, self-hosting, Electron packaging/notarization, Mac App Store readiness.
E-commerce and CMS	Shopify, Shopify GraphQL Admin API, Shopify embedded apps, Shopify Polaris/App Bridge, public Shopify product JSON ingestion, WooCommerce, WordPress, BigCommerce, catalog management, product exports, B2B linesheets, orders, shipments, customers, roles, audit history, CMS/media workflows.
Domains and methodologies	Multi-tenant commerce, desktop productivity, developer tooling, AI retail, virtual try-on, RAG systems, B2B catalogs, agile-style iterative delivery, product discovery, requirements gathering, UX-first implementation, MVP scoping, API design, auth/session boundaries, caching strategies, observable deployments, structured logging, documentation-driven development, operational problem solving.

EDUCATION

Udacity - Full Stack Development

Online | May 2015 - Jan 2016

UNIBE University of Design and Development - Design and Development Studies

Santo Domingo | Jan 1999 - May 2004