

Joao Victor Pereira Dutra

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EDUCATION

Instituto Infnet <i>B.Eng. in Software Engineering — emphasis in Artificial Intelligence Engineering</i>	Rio de Janeiro, Brazil (Online) <i>Jul. 2026 – Expected 2030</i>
TAFE Western Australia <i>Certificate III in Information Technology; Certificate IV in IT Programming (not completed)</i>	Perth, WA, Australia <i>Jul. 2025 – Jun. 2026</i>
ILSC Education Group <i>English program — completed level Advanced 2</i>	Perth, WA, Australia <i>Feb. – Jun. 2025</i>

EXPERIENCE

Software Engineering Student & Freelance Developer <i>Self-employed</i>	Remote <i>2024 – Present</i>
- Delivered end-to-end web applications for clients in e-commerce and real estate, from first scoping call to deployment and ongoing maintenance. - Integrated third-party APIs, AI services, real-time systems, and cloud infrastructure on each engagement. - Owned the full delivery cycle — scoping, direction, deployment, and documentation — with average initial delivery of 2–3 weeks, followed by ongoing maintenance.	

CLIENT PROJECTS

Virtual Try-On Platform <i>Node.js, TensorFlow.js, Gemini API, Supabase, WooCommerce, Docker</i>	2024 – 2025
- Shipped an embeddable try-on widget for an eyewear retailer, enabling customers to preview glasses on their own photo before purchase; integrated with WooCommerce product catalog. - Moved the system from sequential retries to a parallel fan-out — N candidate images generated concurrently, each scored against a 128-dimension facial embedding (face-api.js / TensorFlow.js), returning the closest match; N attempts cost the wall-clock time of one. - Built a three-tier in-memory cache (products / searches / metadata) with independent TTLs and selective invalidation, plus on-disk image caching and HTTP ETag / stale-while-revalidate — 80% hit rate measured in production over ~10k lookups. - Split the workload into two Node services behind Traefik on Docker/VPS with path-based routing, isolating the ML-heavy try-on path from the latency-sensitive chat path; real-time agent chat over Supabase Realtime with OpenAI Whisper (STT) and TTS.	
Real Estate Feed Integration <i>PHP, WordPress, MySQL, XML, Docker</i>	2025 – 2026
- Shipped a WordPress plugin that auto-generates XML feeds for three major Brazilian property portals (ChavesNaMão, Imovelweb, VRSync), eliminating a fully manual export process. - Delivered a batch import engine that ingests partner listings via VRSync XML, handling photo uploads, taxonomy mapping, and post creation without timeouts. - Shipped token-based authentication, rate limiting, cron scheduling for daily regeneration, and a full admin panel for settings, status, and partner management.	

PERSONAL PROJECTS

Bananablet <i>JavaScript (MV3), Cloudflare Workers/R2/KV/Durable Objects, Supabase, Node, VPS</i>	2025 – Present
- Built and maintain a browser extension for an online game client, shipped on the Chrome Web Store: 4,000+ installs and 1,900+ monthly active users. - The host protocol randomizes packet opcodes per session; shipped a fix that replicates the client's derivation function to normalize ~147 packet IDs across 124 call sites, instead of maintaining a lookup table that would break on every release. - Measured 707k requests/24h on the Worker and found presence polling dominated it; migrated presence to a persistent WebSocket service, cutting Worker traffic ~95%. - Backend across Cloudflare Workers, R2, KV, Durable Objects and Supabase, with layered rate limiting and a maintained suite of 197 test files. - Built end to end with a multi-agent AI workflow: 7 versioned rule files each carrying its technical rationale, one model cross-auditing another's refactors, and spec-driven TDD with the RED/GREEN cycle recorded per task.	

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, PHP, SQL

Frameworks & Libraries: Node.js, FastAPI, React, Next.js, Express, Tailwind CSS, shadcn/ui, Zustand

Databases: PostgreSQL (Supabase), MySQL

Cloud & DevOps: Docker, Traefik, Cloudflare Workers/Pages, VPS (Ubuntu/Debian), GitHub Actions

APIs & Services: OpenAI API, Google Gemini API, Bybit API, WooCommerce REST, Telegram API, WebSockets

AI-Assisted Development: Claude Code, Codex; versioned agent rules, cross-model audit, spec-driven TDD

Spoken Languages: Portuguese (Native), English (Advanced — PTE Overall 67)