

João Pedro Braga Barbosa Oliveira

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PROFESSIONAL SUMMARY

Computer Engineering Student (UNIVESP) and Software Engineer with a strong inclination towards **Infrastructure and Automation**. Practical experience in e-commerce architecture, development of internal tools for operational optimization, virtualized servers (Proxmox), and hardware optimization. Focused on creating integrated digital ecosystems that solve business bottlenecks.

TECHNICAL SKILLS

Infrastructure & Servers: Proxmox VE, Docker, LXC, Linux (Debian/Ubuntu), ZFS/LVM, Tailscale (Zero Trust/VPN), Nginx (Proxy Reverso), Network Management.

Web Development: JavaScript (ES6+), Node.js, PHP, React, HTML5, CSS3, Mobile-First Design.

Data & Backend: MySQL, REST APIs, Web Scraping, AI Integrations (LLMs).

Tools & E-commerce: Git/GitHub, Advanced WordPress, WooCommerce, Technical SEO.

EDUCATION

Bachelor of Computer Engineering

Universidade Virtual do Estado de São Paulo (UNIVESP)

Est. Graduation: 2030

São Paulo, Brazil

Languages: Portuguese (Native) | English (Advanced/Fluent - EF SET C1 Certification)

PROFESSIONAL EXPERIENCE

Software Engineer

AquaFlora AgroShop

Aug 2025 – Present

Boa Esperança do Sul, Brazil

- Technical leadership and full-cycle development of an e-commerce with **3000+ products**, orchestrating a WordPress/WooCommerce stack in a high-performance environment.
- Creation of an internal web application for **Mobile Inventory Management** via barcode scanning, decentralizing data access and accelerating team responsiveness in real-time.
- Architecture of **AI-driven customer service automation** (Node.js + whatsapp-web.js), processing hundreds of daily interactions and reducing response SLA by 80%.
- Development of Python/JS scripts for **Massive Catalog Import**, automating stock and price updates via CSV spreadsheets and eliminating repetitive manual work.

RELEVANT PROJECTS

Hybrid Infrastructure (Production & HomeLab) | *Proxmox, Linux, ZFS, Docker*

Nov 2025 – Present

- **On-Premise Production:** Hosting and sustaining the **AquaFlora Inventory Management** application (mentioned above), ensuring local high availability for critical store operations.
- Infrastructure consolidation: Orchestration of **15+ containerized services** (Docker/LXC) on a single physical node, optimizing legacy hardware via *kernel tuning* and dynamic allocation.
- Network & Security: Implementation of **Zero Trust** (Tailscale) for secure remote access and **Nginx Proxy Manager** with SSL for internal and external service routing.
- Resilient storage management with **ZFS**, configuring automatic snapshots and logical volumes (LVM) to ensure data integrity (Disaster Recovery).

JoysticKnights | *WordPress, Technical SEO, Analytics*

2021 – Present

- Independent media portal. Acting as **Webmaster**: responsible for server maintenance, security, and **Core Web Vitals** optimization to ensure high scores on Google PageSpeed.
- Technical SEO strategy and implementation of structured data (Schema.org), resulting in better indexing and organic reach.

Kingdom of Aen (Game Engine) | *JavaScript (ES6+), OOP, Design Patterns*

2025

- Development of robust game architecture using **Object-Oriented Programming** for state management and complex business rules.
- Implementation of turn-based logic and direct DOM manipulation for high performance, without dependency on external frameworks.