

João F. G. Pozzer

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Experience

Psyze

Miami, United States - Remote

Head of Technology

Jan 2025 – Present

As co-founder and technology lead, I system designed, built, and optimized the entire core platform, from infrastructure to product management, while turning early-stage prototypes into stable, high-performance applications under strict budget constraints. While building my high agency skills and product decisions.

- Engineered a production-ready AI video analysis back-end by converting a 10k-line, poorly optimized Python script into a modular, maintainable FastAPI application.
- Cut Docker build times from over 1 hour to under 30 seconds for code changes by restructuring the build process, layering dependencies efficiently, and triggering full rebuilds only when significant library changes occurred.
- Optimized AI processing for CPU-only execution, enabling intensive video analysis without costly GPU infrastructure while maintaining performance for production and development.
- Designed system architecture and selected the tech stack to enable rapid development and scalable growth, balancing long-term maintainability with startup speed.
- Built a full-stack video analysis platform in 3 months using Laravel server-side rendering (SSR) with Inertia.js and React, delivering two distinct, role-based experiences—mobile-first for clients and desktop-focused for professionals.
- Provisioned and maintained AWS infrastructure, company email systems, and supporting business services, ensuring reliable operations at low cost.
- Resolved critical memory-crash issues on a c5.large EC2 instance by adding SSD storage and implementing swap memory, allowing Python services to handle RAM spikes without downtime.

KHIZA DAO

Curitiba, Brazil- Hybrid

Web3 Full-stack Developer

Feb 2023 – Nov 2024

At a high-growth Web3 startup, I engineered back-end and front-end solutions that balanced speed, maintainability, and security under tight deadlines, while building my troubleshooting and team work skills.

- Architected a Laravel-inspired backend in NestJS replicating key Laravel patterns to enable rapid Web3 backend development.

- Created a reusable backend template application by extracting and refining the NestJS architecture.
- Developed precision math solutions before native JavaScript BigInt and Viem adoption, creating custom formulas and utility libraries.
- Implemented a recursive BigInt handler for backend-API-database pipelines, ensuring consistent type safety.
- Solved a blockchain concurrency challenge using workers, queues, async/await execution, and observers.
- Proactively improved project stability and maintainability by refactoring and removing technical debt.

NAF - Unoesc Chapecó

Customer Service Intern

In Person

Oct 2019 – Dec 2021

Brazilian Federal Revenue

Customer Service Intern

In Person

Mar 2019 – Sep 2019

Skills

Laravel, React, Vue.js, Inertia.js, JavaScript, TypeScript, Node.js, PHP, OOP, MVC, HTML5, CSS3, TailwindCSS, Python, FastAPI, Django, Machine Learning, Web3, Solidity, Smart Contracts, Ethereum, BigInt, Ethers.js, Viem, Blockchain Development, MySQL, PostgreSQL, Redis, Cloud Computing, AWS, EC2, RDS, S3, SES, SQS, VPS, IAM, Docker, docker compose, CI/CD, versioning control, Git.

Education

Kenzie Academy Brazil – Technical Course, **Computer Software Engineering** (Nov 2021 – Nov 2022)

University of Western Santa Catarina – Bachelor, **Accountancy** (Feb 2018 – Dec 2021)

Wizard by Pearson – Language Certification, **English** as a Second Language (Feb 2016 – Nov 2020)