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Summary

I possess 3 years of web development experience (Frontend with TailwindCSS, Next.js, Astro.js, and HTMX, and Backend with Python, Flask, Nodejs, and Fastify). Additionally, I have 1 year of experience in mobile development using React Native with Expo. My professional career has been primarily focused on freelance projects for small businesses. In these endeavors, I have delivered end-to-end projects to enhance the online presence of these organizations, encompassing the entire process from design conception to software deployment.

Professional experience

Sertton Industrial – Mobile and Web Developer | 2023 - 2024

- E-commerce development for the sale of heavy vehicle parts. | <https://sertton-industrial.com.br/>
 - ✓ Includes features to increase the company's sales conversion, such as abandoned cart recovery, upselling, and SEO optimization settings, including meta descriptions, SEO-friendly URLs, and image optimization.
 - ✓ Integration with Google Ads and Google Analytics to increase website visibility and analyze metrics, respectively.
 - ✓ DNS and domain configuration;
 - ✓ Integration with payment gateways such as Mercado Pago and Pagarme.
- Development of a mobile application featuring the same functionalities as the web version, with integration between the two softwares via a REST API. | <https://play.google.com/store/apps/details?id=com.joaopcarvalho.sertton>
 - ✓ Implementation of automated tests to reduce bugs.
 - ✓ Use of the MVVM architectural pattern to separate business logic from interface logic, thus improving code organization.
 - ✓ Creation of a CI/CD pipeline covering everything from test execution to app bundle deployment to the Google Play Store, to automate this process.
 - ✓ Technologies: React Native, Expo, Tamagui and Axios.
- Creation of Rest API to calculate shipping based on the customer's zip code and the dimensions of the e-commerce's products | <https://github.com/JohnPetros/shipment-service>
 - ✓ Integration with the Melhor Envio platform using OAuth2 authentication.
 - ✓ Use of SOLID Principles to Facilitate Software Development, Maintenance, and Expansion.
 - ✓ Technologies: Nodejs, Fastify, Axios, Redis and Docker

Academic projects

Stardust: Web application for teaching basic programming logic to the general public using gamification methodology.

- Reward system and user ranking based on website performance
- Use of a fully portuguese programming language called Delégua as a learning tool
- Adaptive logic and algorithm challenge resolution based on user knowledge level
- Technical systems development technician's final project at Etec, highly praised by the panel of teachers.
- Technologies: Next.js, TailwindCSS, TypeScript, Supabase (PostgreSQL)

Smart Farming: Web application for monitoring the smart greenhouse at my college

- integration with the ESP board used in the greenhouse, so that the data captured by the greenhouse sensors is sent to the web application in a fully automatic way.
- Interactive data visualization for greenhouse monitoring and decision-making.
- Automated data backup and cloud storage for greenhouse monitoring
- CSV data import, export, and processing.
- Technologies: Python, Flask, HTMX, MySQL, TailwindCSS, HyperScript and Docker.

Education

Fatec | 2024 - currently

Cross-platform software development technician course.

Etec | 2022 - 2023

Systems development technical course.