

Pierre Passos

Full Stack Developer

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SUMMARY

I've been a Full Stack developer for over 4 years, and my specialty is software that talks to the physical world: time tracking and access control systems integrated with time clocks, turnstiles and face readers, following Brazilian labor rules for work hours, overtime, night shift pay and hour banks.

Today at Topdata I take part in every stage of a multi-tenant platform on Azure that connects time clocks to the cloud, with a web system, Android and iOS apps (including kiosk mode), AFD file generation, an integration API and observability. Before that, at Bel, I worked on WMS and PWAs for logistics operations. I use Java and Spring Boot on the backend, and Angular and Ionic on the frontend and mobile.

CORE TECHNOLOGIES

Java + Spring Boot REST APIs, Hibernate/JPA, virtual threads

Angular Enterprise web, SSR, lazy loading

Ionic Web, Android and iOS apps

TypeScript Frontend, mobile and Node.js

Azure Deploys, App Service, multi-tenant

EXPERIENCE

Full Stack Developer · Topdata

Aug 2024 — Present

Development of web and mobile applications focused on management and control systems, working as a full stack developer.

- Took part in every stage of developing a multi-tenant platform on Azure that connects time clocks to the cloud: web system, Android and iOS app (personal and kiosk mode), AFD file generation, integration API, observability and a Java backend using virtual threads
- Built user interfaces using Angular, Ionic, TypeScript and SCSS
- Developed REST APIs with Java (Spring Boot), Hibernate and JPA
- Involvement in technical decisions related to architecture, scalability, and system integration
- Integrated systems using Kafka and Redis to improve communication between services
- Implemented automatic mobile data synchronization ensuring scalability and high performance
- Worked on access control systems integrated with physical devices (turnstiles and facial recognition)
- Managed deployments on Azure
- Published and distributed mobile applications via Google Play Console
- Containerized applications using Docker
- Monitored systems with Grafana and Prometheus

Results:

- Improved system performance and stability
- Enhanced service communication and data processing
- Contributed to scalable solutions integrating software and hardware

Worked on the development and evolution of web systems and PWAs, focusing on performance and user experience.

- Developed applications using Angular, Ionic and TypeScript on the front-end
- Built REST APIs with Node.js (Express) and Java (Spring Boot)
- Integrated systems with PostgreSQL and SQL Server
- Contributed to WMS systems development
- Deployed Java applications using Apache Tomcat
- Used Git and worked in an agile (Kanban) environment

Results:

- Improved application usability and performance
- Continuous evolution of critical systems
- Delivered features with direct impact on end users

SELECTED PROJECTS

- **Time Clock Management Platform** Multi-tenant SaaS platform on Azure that connects time clocks to the cloud, with a clock-in app for personal or kiosk use and AFD file generation.
Java · Azure · Multi-tenant · Virtual Threads · Hardware · API · Android · iOS · Observability
- **HR System** Cloud-based time tracking system with automated labor rules and biometric integration.
Java · Spring Boot · AngularJS · Hibernate · PostgreSQL
- **HR Mobile App** Hybrid app for time tracking with geolocation and facial recognition.
Ionic · Angular · TypeScript · Mobile · Geolocation
- **Access Control** Real-time access control system integrated with turnstiles and facial recognition.
Angular · SSR · Azure · TypeScript
- **Inventory & Sales Platform** Inventory and sales platform with PWA and scalable cloud architecture.
AWS · Angular · Ionic · Node.js · Spring Boot · TypeScript
- **Integration & SDK (.NET)** SDK and integration layer to standardize communication with time tracking APIs.
.NET · C# · API · SDK · REST · Integration
- **Database Updater (Azure)** Python automation for updating databases across multiple Azure environments.
Python · Azure · Automation · Scripting

OTHER TECHNOLOGIES

Backend: Hibernate, JPA, REST APIs, Node.js, Express, TypeORM, Redis, Kafka, Virtual Threads, C# .NET, Tomcat

Frontend: JavaScript, AngularJS, Bootstrap, SCSS, PWA

Mobile: Capacitor, Cordova, Android

DevOps: Docker, Grafana, Prometheus, CI/CD, Git

Database: SQL Server, PostgreSQL

EDUCATION

Systems Analysis and Development · UNINTER · 2021 – 2024