Pierre Passos

Full Stack Developer

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SUMMARY

I've been a Full Stack developer for over 4 years, focused on web applications: REST APIs with Java and Spring Boot and front ends with Angular and TypeScript. I also build Android and iOS apps with Ionic, and what sets me apart is my experience with hardware-integrated systems such as time clocks, 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: 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.

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
- 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

Full Stack Developer · Bel Mar 2022 — Mar 2024

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

- **Cloud Time Clock Platform** Multi-tenant platform on Azure that replaces a desktop system: it registers time clocks, collects punches and generates, with a digital signature, the AFD (Arquivo-Fonte de Dados), the official punch record file required by Brazilian law. Includes an employee app with facial recognition.
  Java · Spring Boot · Angular · Azure · SQL Server · Kafka · Redis · Ionic · Capacitor · C# · Multi-tenant · Virtual Threads
- **Time & Attendance Management System** A web system and clock-in app in production for years, with about 8,000 customers and more than 12,000 connected devices. It covers HR's whole time-tracking routine, from setting up work schedules to the compliance files.
  Java · Spring Boot · SQL Server · Ionic · Kafka · Redis · WebSockets · AngularJS
- **Internal Tools** Two tools for the team and support: one runs scripts and queries on every customer database at once; the other shows which devices are connected.
  Python · SQL Server · Redis · Docker · Dash · Plotly · pandas
- **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

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