Pedro Brandão

Software Developer

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Summary

Software Developer with 6+ years of experience building web applications (Angular and Next.js) for healthcare and academic sectors. Specializing in modern frontend architecture and component-based design. Experienced working in regulated environments and remote teams. Interested in product development and design systems optimization.

Technical skills

- Programming Languages: JavaScript, TypeScript, HTML, CSS
- Frontend: Angular, React, Next.js, Ionic Framework, Tailwind CSS, shadcn/ui (Radix UI), Three.js
- Backend (working knowledge): Node.js, HTTP/REST APIs, PostgreSQL, Drizzle ORM
- Mobile: Capacitor, Cordova
- Tools & Other: Git, Docker, Linux, Figma
- Human languages: Portuguese (native), English (professional), Spanish (conversational)

Professional Experience

Software Developer - Cambridge Digital Health │ 2019 - present | Remote
- Frontend architecture and development of web and hybrid mobile healthcare applications, dashboards and administrative tools.
- Design and maintenance of scalable, reusable component systems, ensuring UI consistency across platforms.
- Cross-functional collaboration with engineers, designers, and product teams to document best practices and maintain cohesive user experiences.

Key Projects:

- **Heartfelt Health Integrity** - 2024 - present
  Development of clinical trial management web applications used across UK and US sites for patient tracking and trial data management (Next.js, Shadcn/ui, Tailwind CSS, TanStack and Drizzle ORM).
  - Deployed in production across multiple UK and US clinical trial sites.
- **Heartfelt Companion App** - 2023 - present
  Development of a companion app for heart-failure symptom monitoring and medical device connectivity (Angular, Ionic, Capacitor, PostgreSQL).
  - Improved patient engagement and consistency of symptom reporting across trials.
- **NIPE - textbook in a pocket** - 2022 - 2024
  Development of a neonatal screening training tool and web dashboards for content management, user administration, and payment processing (Angular, Ionic, Cordova, PostgreSQL).
  - Deployed in production improving access to remote education and verified information.

- **Advantage Diary** - 2022 - 2023
  Implementation of data visualization components for pain tracking, triggers and notifications (Angular, Ionic, Cordova, PostgreSQL).
    - Improved self-monitoring practices through clear visualizations.
- **BUDS** - 2020 - 2023
  Design, prototyping and development of a parental support mobile app, including integration with external proprietary CMS (Angular, Ionic, Cordova).
    - Aimed at improving communication and access to information by parents.

Previous Professional Experience

Architect - WEPLAN - Engenharia | Construção | 2016 - 2019 | Porto, Portugal
- Architectural design, Project management, Construction management.

Architect - Cooperativa de Ensino Superior Artístico do Porto | 2014 - 2016 | Porto, Portugal
- Architectural surveying and design, 3D modelling and rendering.

Architect - Self-employed | 2012 - 2016 | Porto, Portugal and Remote
- Architectural surveying and design, 3D modelling and rendering, Construction management.

Architect - Francisco Barata, Arquitecto | 2010 - 2012 | Porto, Portugal
- Architectural surveying and design.

Education & Professional Qualifications

- **CS50: Introduction to Computer Science** - Harvard University | 2019 | Remote
- **Professional Registration & Admission** - Ordem dos Arquitectos (Portugal) | 2010 - 2011 | Porto
- **Masters in Architecture** - Escola Superior Artística do Porto | 2004 - 2010 | Porto