

Carlos Barbosa

Senior Software Engineer · Front-end focused · TypeScript, React, Node.js

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Porto, Portugal

Profile

I build web products with **TypeScript, React, and Node.js**. At InnovationCast, I'm driving the incremental migration of a production B2B SaaS front-end from KnockoutJS to React: architecture research, testing strategy, and feature delivery across both stacks, with zero disruption for customers.

Ten years shipping for the web (offline-first applications, e-commerce stores, CMS platforms, CI/CD pipelines) after retraining into software development from an earlier technical career. Mostly front-end by craft, comfortable across the stack. I support open source, prefer functional programming, and enjoy improving my colleagues' workflows as much as my own.

Experience

InnovationCast - Senior Software Engineer - Porto/Remote

01/2022 - Present

- Driving the incremental migration of a production SaaS front-end from KnockoutJS to React + TypeScript + TailwindCSS: architecture research, testing strategy, and feature delivery across both stacks with zero downtime for customers
- Develop features across legacy and modern UI stacks, including C# backend work, for a B2B platform supporting innovation and idea management
- Collaborate with design and backend teams on UX refinement and code quality
- **Key tech:** React, TypeScript, TailwindCSS, KnockoutJS, C#

INOVA+ - Digital Consultant · Full-stack Developer - Porto

11/2016 - 01/2022

- Built full-stack web applications with Node.js, React and MongoDB
- Designed wireframes and implemented CMS and e-commerce sites in WordPress
- Set up Docker-based CI/CD pipelines (GitLab) and delivered technical training to internal teams and clients
- **Key tech:** React, TypeScript, Node.js, MongoDB, Docker, GitLab CI/CD, WordPress

Obra ABC (IPSS) - Educational Helper - Porto

2015 - 2016

- Supported children deprived of adequate family means; taught social skills and basic IT awareness

Fase Estudos e Projetos, SA - CAD Designer, later IT Support - Porto

2002 - 2012

- Technical design for electrical and security/CCTV plans; built an in-house dynamic block library and automated repetitive tasks with scripts
- Software support, management and parameterization of an ECM solution, from implementation to full adoption

Skills

TypeScript · React · Node.js · JavaScript · TailwindCSS · HTML · CSS · MongoDB · Docker · GitLab CI/CD · REST APIs · Git · Testing · Functional Programming · Front-end Architecture · WordPress · UX/UI · C# · KnockoutJS

Volunteering

- **Animal welfare association, Porto** - CED/TNR program volunteer · 2025 - *Present*

Education

- **Multimedia Engineering degree** - Instituto Superior de Tecnologias Avançadas (ISTEC), Porto: web applications, e-learning models, graphic content and animation
- **Web Programmer** - Universidade Portucalense Infante D. Henrique, Porto: algorithms practice and Windows applications
- **Intensive Management Program** - Católica Porto Business School: creation and group pitching of a full business model

Professional development

- **IT Technician Training for Electoral Systems** - IEFP, 2024: supported the digital infrastructure for the 2024 EU elections, the first with dematerialized electoral rolls
- **Just JavaScript** - Dan Abramov, 2021: deep dive into JS fundamentals to strengthen mental models for modern front-end development