

Bernardo Belchior

Full Stack Engineer

I am passionate about new technologies and performance. Interested in the Internet of Things and experienced with React, TypeScript, Node.



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EXPERIENCE

Frontend Developer Sonodot

06/2018 – 08/2018

London, UK

Achievements/Tasks

- Dashboard development using React, Redux and TypeScript
- Live Map drawing using OpenLayers and WebSockets

Full-Stack Developer Freelance

01/2018 – 06/2018

Achievements/Tasks

- REST application development (ExpressJS)
- Web application development (VueJS)

Realtime Systems Researcher CISTER - Research Centre in Real-Time & Embedded Computing Systems

08/2017 – 12/2017

Summer Internship. Linux kernel scheduling algorithm implementation, formal program verification paper analysis and sensor deployment in the building.

General Manager National Meeting of Informatics Students 2018 (ENEI)

10/2016 – 03/2018

Porto, Portugal

The 12th edition of ENEI brought over 700 students from all over Portugal together to attend to talks, workshops and other activities.

EDUCATION

Integrated Master's in Informatics and Computing Engineering Faculdade de Engenharia da Universidade do Porto

09/2014 – 07/2019

GPA: 16,7/20

Courses

- Distributed Systems
- Software Architecture

Master's in Informatics (Erasmus) Technische Universität München

10/2018 – 03/2019

Courses

- Internet of Things
- Entrepreneurship
- Data Mining

TOOLS/LANGUAGES

Embedded Devices

TypeScript

React

Node

PROJECTS

Measurement System for a Building Environment (09/2017 – 11/2017) [↗](#)

- Built a measurement system using Tmote Sky spread over a mesh network that connects to a sink mote. The sink sends information to a raspberry Pi which aggregates floor data and sends to a central server. The server will present the information on a screen about the temperature and humidity of the whole building.
- Challenges: Routing information from the edge node to a sink.
- Technologies: Contiki OS, C, OpenWSN, MySQL, HTML, CSS, JavaScript

Cryptocurrency Trading Website (01/2018 – 08/2018)

- Freelance project: website built with VueJS to sell cryptocurrency using Bitstamp API for the transaction, ElementUI for the frontend and Node with FeathersJS for the backend. The project uses Heroku and Netlify to deploy automatically on every commit to master and develop branches, Mocha, Chai and Travis for testing
- Technologies: VueJS, FeathersJS, Node, Heroku, Netlify, Travis CI

Crowdfunding for Social Impact Website (10/2017 – 01/2018)

- A full-blown website built in HTML, CSS and JS using Elixir with the Phoenix framework for the backend. It provides a way to connect people willing to create a better world by allowing them to donate to useful and interesting projects through the Stripe API. The project was developed in a Scrum environment over 10 weeks with 2-week sprints.
- Challenges: Learn a completely new language while developing, work in a 9 people team following an Agile methodology
- Technologies: Elixir, Phoenix, HTML, CSS, JavaScript

Distributed Hash Table Implementation (04/2017 – 06/2017) [↗](#)

- Implementation of a Distributed Hash Table in Java using the Chord protocol in order to allow for files to be encrypted and then backed up, restored and replicated in a network of peers.
- Challenges: Ensuring replication correctness over various peers, system recovery on peer failure.
- Technologies: Java, Git, IntelliJ

LANGUAGES

English
Expert

German
Intermediate

Portuguese
Native or Bilingual

Spanish
Upper-intermediate