

Rui Botto

SOFTWARE ENGINEER

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Education

FEUP (Faculty of Engineering of the University of Porto)

[Porto, Portugal](#)

MASTER IN INFORMATICS AND COMPUTING ENGINEERING

Sep. 2011 - Mar. 2018

- **Learned Skills :** Software Engineering, Agile Development, Computer Graphics, Algorithms and Data Structures, Databases and Web Development, Computer Networking, Distributed Systems, Operational Research, Artificial Intelligence, Parallel Computing, Software Architecture, Knowledge Extraction and Data Analytics .

Ghent University

[Ghent, Belgium](#)

COMPUTER SCIENCE ENGINEERING - ERASMUS+ PROGRAMME

Feb. 2015 - Jul. 2015

- **Learned Skills :** Compiler Design, Functional Programming and High Tech Marketing.

Experience

Farfetch

[Porto, Portugal](#)

BIG DATA INTERN - MASTERS DISSERTATION

Oct. 2017 - Feb. 2018

- Designed a flexible and modular architecture for dataflow orchestration in big data clusters that rely on a lambda implementation.
- Implemented a proof-of-concept framework for the defined architecture using Scala and Akka that allowed for the definition and creation of complex processing pipelines taking in consideration their parallel and concurrent nature.

VentureOak (now XING Portugal)

[Porto, Portugal](#)

JUNIOR DEVELOPER

Oct. 2015 - Mar. 2017

- Worked on the frontend development of the new Porto Editora website where i had the opportunity to improve my knowledge of Javascript (Jquery), SASS, HTML and Twig as well as to solidify my Symfony knowledge.
- Worked on a social network application for Delta Cafés where i had the opportunity to work as a full stack developer and improve my knowledge of PHP, Symfony, Jquery, SQL , Design Patterns and Docker.

VentureOak (now XING Portugal)

[Porto, Portugal](#)

SOFTWARE DEVELOPMENT INTERN

Aug. 2015 - Sep. 2015

- Improved a live version of a management and planning platform for a training session organizer company using Symfony, a high-performance PHP framework using a MVC infrastructure.
- Developed VentureOak's new website using and improving my knowledge about responsive design, css animations, template engines and task runners. I also worked with Phalcon, another great PHP framework for lightweight web applications.

Projects

- **Appy Tourist :** A mobile application proposed by DECO, to help tourists understand their rights as consumers in Porto. **Angular 2.0, HTML/CSS, SQL**
- **React Events Datawarehouse :** A data warehouse of the React framework public events on Github, that allowed for analysis of different statistics. **Javascript, SQL**
- **Bank Loan Prediction :** A supervised predictive model that categorized bank loans as which ones were most likely to be paid back. **R, RapidMiner**
- **InternShip :** A web platform that aimed at changing the way companies and students interact by building a gamification system around small challenges that could be tackled by students to show their skills in order to find the best match. **MEAN Stack**
- **Event Lane :** A web platform that allowed for the creation and organization of events. **PHP, HTML/CSS, Jquery**
- **FEUPChat :** A web application for individual or chat conversations with file transferring support. **Node.js, Socket.io**
- **Hospital Timetable Organizer :** A multi-agent application that solved scheduling problems for hospital appointments. **Java, Jade**
- **Distributed Backup :** A distributed and decentralized application that provided file backup capabilities. **Java**
- **Matrix Oriented DSL :** A DSL compiler for matrix operations in the Java language. **Java, Javacc**
- **Bombberman :** A 6 level remake of the bomberman game using its own object collision and bomb explosion engine. **Java**
- **Online Billing System :** An online platform that allowed users to manage their inventories, their groups of clients and for the creation of invoices for products sold. **PHP, HTML/CSS, Jquery**
- **Commodore :** The Battleship game running on top of Minix, which involved programming every device's driver (timer, keyboard, mouse, VESA graphics). **C**

Relevant Skills

- **General Purpose** : C, Java, Scala
- **Web** : JavaScript (ES6), Typescript, Node.js, PHP, HTML, CSS/SASS
- **Frameworks and Libraries** : React, Angular 2, Symfony, Phalcon, JQuery, P5.js
- **Databases** : MySQL, MongoDB
- **Other**: Unix, GIT, Docker, Vagrant
- **Languages**: Portuguese (native), English (fluent), Spanish (intermediate)

Extracurricular Activity

JuniFEUP (Junior Enterprise)

Porto, Portugal

CHIEF QUALITY OFFICER & CHIEF COMMUNICATION OFFICER

2013

- Created new and improved activity flows for each department in order to reduce overheads and increase efficiency.
- Developed new plans to approach projects with new companies and reshape the image of the enterprise inside and outside campus.
- Improved the internal operations system by reshaping the way members interacted and evolved with a system for personal improvement supported by workshops and conferences.

JuniFEUP (Junior Enterprise)

Porto, Portugal

MEMBER OF THE QUALITY DEPARTMENT

2012

- Reviewed and created documentation for all the activities of the different departments.
- Worked on developing the new quality manual of the company activities in order for the company to be ISO certified.