



NELSON RICARDO

Senior Software Engineer



## CONTACT ME



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nricardo.github.io/resume



Lisboa, PT



## PROFILE

👨‍💻 Experienced and motivated software engineer focused in web technologies :: Design, architecture and implementation of web and mobile applications using the latest tools and best software practices. Advocate of the Javascript language and its frameworks, currently focused in NodeJS and React / React Native.

Knowledge in software development processes, from requirements and analysis throughout design, implementation and testing. Worked under R&D environment, doing requirement analysis and writing technical project documentation.

Professional experience in OO programming languages, such as C/C++ and Java, but always open to learning new ones and new software processes and methodologies.



## WORK EXPERIENCE

### Truphone

[www.truphone.com](http://www.truphone.com)

📅 Apr 2018 - (present day)

Senior Software Engineer | Fullstack Developer

**RSP Portal** - Lead the architecture, design and implementation of Truphone's first web portal for the RSP platform (<https://web.truphone.com/telecoms/consumer-rsp/>) using ReactJS, including the backend service (BFF) responsible to route access to the different internal layers of microservices. Implemented the security layer using Keycloak IAM solution as well the auditing system when accessing the service. Responsible for the design, implementation and testing of a full-fledged UI component library from the ground up with the collaboration of the UX/UI team, allowing Truphone's brand and vision integrate into our products as well providing a more ease adoption and transition to use React into new projects/portals using these components. Contributed and helped on the early adoption of migrating services to AWS cloud infrastructure, discussing best-practices and architectural approaches for each service that best matches our goals.

**My Truphone App** - Bootstrapped 1st Truphone's mobile application for purchasing global data plans and installing them on **eSIM** capable devices (iOS and Android).

- Continuous help on moving projects/services towards a microservices architecture;
- Mentoring more junior team members on getting on-board and guiding them on more complex tasks;
- Assistance on implementing in-house as well industry best-practices that keeps our code clean and testable;



### CAP-HPI

[www.cap-hpi.com](http://www.cap-hpi.com)

📅 Jan 2018 - Apr 2018

Senior Software Engineer | Fullstack Developer

Improve and implement new features on CAP-HPI's car evaluation sites (<https://hpivaluations.com/>).  
[Nearshore project (fullstack)]



## SKILLS

### Web Development



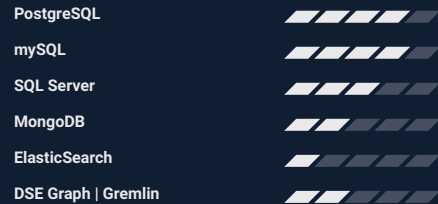
### Languages



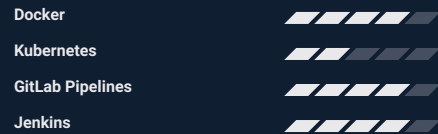
### Mobile Development



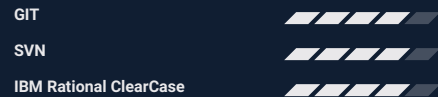
### Databases



### DevOps



### Source Control



## CONNECT



github.com/nricardo



linkedin.com/in/nsricardo



facebook.com/nelson.ricardo.56

## BNP Paribas Portugal

www.bnpparibas.pt

Jun 2017 - Dec 2017

Senior Software Engineer / Web Developer

Design and implementation of a software solution for staff management and project planning (time allocation, skill management, ...).



## Media Capital Digital / TVI

www.tvi.iol.pt

Sep 2016 - Jun 2017

Senior Software Engineer / Web Developer

Improvements on the backend services/databases and the BackOffice (BO) frontend components. Build of a statistical/monitoring system and report generation for the overhaul and day-to-day BO operations.

Implementation of a new frontend solution for creating clips from HLS (Live) streams.

Design and integration of the SSO authentication system, using OAuth2.



## PHC

www.phcsoftware.com

Sep 2014 - Aug 2016

Software Engineer / Web Developer

Drive FX (<https://www.drivefx.net>)

Implementation from the ground-up of the new platform / framework the FX project composed by Billing (invoicing), Business (management) and the POS components.



## System Architect

**hiT7500 project**

Specification and integration of 10G/40G/100G new generation transponders from hiT7300 platform / product.

Responsible for the technical specification and description regarding the characteristics and the capabilities of optical components supported by the system and their configuration settings.

**hiT7300 project**

Functional specification writer for the configuration management aspects of the northbound interfaces used by network management systems.

Responsible for the implementation of a new concept for writing the specification documentation using a DSL (Domain Specific Language) called YANG.

Design of the entire framework used for the automatic productions that produces releases (issues) of the mentioned documentation in PDF format and an online version using WordPress as a CMS platform. Jenkins was the choice as a CI (Continuous Integration) tool. The framework uses ANT to give support for the building process and SVN as the SCM (Software Configuration Tool).

The framework is responsible for the syntax verification of YANG modules, schema generation (XSD's, XML's, RelaxNg and Schematron), HTML transformation, publishing and deployment of the resulting HTML files into CMS server.

**NGOA project**

Responsible for the research and gathering of technical, functional requirements as well as defining the management interfaces of next generation ONUs.

Analysis on the business perspective, for home and business use cases, where the product would have practical and efficient application.

Investigation on hardware equipment between chipsets and their interfaces in order to meet the specified requirements.

Development and proposal of several solutions of HW (designs) that satisfied the two business areas.

WordPress (as CMS platform) + plugin development

PHP, HTML5, CSS3, LESS, Bootstrap framework, JavaScript/jQuery, XML, XSLT

PrinceXML (for PDF generation)

YANG (<http://www.rfc-editor.org/rfc/rfc6020.txt>) (DSL language) + pyang (YANG validator tool)

Apache Ant (Build tool/library)

Subversion (SVN)

Jenkins (Continuous Integration Server)

**Wincor Nixdorf Portugal**

www.dieboldnixdorf.com/en-us

📅 Oct 2008 - Mar 2010

## Software Engineer

**TPLinux project**

Development of new features and maintenance of the POS as well as the back-office applications.

**Proview project**

PoC (Prof of Concept) and Roll-Out of the monitoring of ATM's agent.

Manage incidents / problems in the customer's ATM network with WN. Establishing correlations and filters for early identification of anomalies in HW. Design and integration with external tools (SIBS / EMIS).

C

C++

Java

HTML5

CSS3

PHP

Wordpress

MySQL

Apache Web Server (LAMP)

Software Engineer

**OCU / MTS project**

Analysis, design and development the embedded application (Linux OS) for the control and management of devices (ASICs/FPGAs) and optical modules (lasers) used in DWDM optical networks.

Test specification and integration between SW and HW.

Customer support in the optimization and correction of deployed systems on their networks.

Improvements of the production environment and code generation (Makefiles / Scripts).

**INOV project**

Submission of an Invention Report (patent candidate) of a control algorithm for spectral power distribution used in optical DGE modules with the title 'Efficient Signal Equalization via Real Time Adaptation of Gaussian Filters'.

C/C++

IBM Rational Rose (UML design and code generation)

IBM Rational ClearCase (Configuration Management)

**EDUCATION****Instituto Superior Técnico**

📅 Sep 1996 - May 2004

[tecnico.ulisboa.pt/en](http://tecnico.ulisboa.pt/en)

Computers and Electronic Systems

**Frei Gonalo de Azevedo Secondary School**

📅 Jan 1987 - Jan 1996

[esfga.pt/expsitenovo](http://esfga.pt/expsitenovo)

Scientific and Natural course: Electrical / Electronic technological