



NELSON RICARDO

Senior Software Engineer

## CONTACT ME

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- Lisboa, PT

## SKILLS

### Web Development

React  
Angular.js  
HTML5  
CSS3  
XML / XSLT  
NodeJS  
Express.js  
REST

### Languages

JavaScript  
TypeScript  
Java  
C/C++  
PHP  
Shell scripting (Bash)

### Mobile Development

React Native

### Databases

PostgreSQL  
MySQL  
SQL Server  
MongoDB  
ElasticSearch  
DSE Graph | Gremlin

### DevOps

Docker  
Kubernetes  
GitLab Pipelines  
Jenkins

### Source Control

GIT  
SVN  
IBM Rational ClearCase

## 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 - Sep 2022

Senior Software Engineer | Fullstack Developer

**RSP Portal** - Lead the architecture, design and implementation of Truphone's first web portal for the **RSP platform** 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, making Truphone's brand and vision integrate into our products, making easy the transition and adoption of React components into new projects/portals. 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) - Help projects/services moving towards a microservices architecture.

React, MUI, Javascript, Typescript, Storybook, Jest, Rollup, Webpack, HTML5, SCSS, Graylog, Prometheus, Grafana, AWS, React Native, Redux, Redux Saga, NodeJS, Loopback, ExpressJS, Docker, Git, Xcode, Android Studio

### 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**. [Nearshore project (fullstack)]

HTML5, CSS3, SASS/SCSS, React, DustJS, Twig.js, Grunt, Webpack, Babel, PostCSS, NodeJS, ExpressJS, Kraken.js, JQuery, GIT

### BNP Paribas Portugal

[www.bnpparibas.pt](http://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, ...).

AngularJS, HTML5, CSS3, SASS/SCSS, Material Design, ES6, D3.js, Webpack, GIT, NodeJS, ExpressJS, DSE Graph, Gremlin

### Media Capital Digital / TVI

[www.tvi.iol.pt](http://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.

AngularJS HTML5 CSS3 SASS/SCSS Bootstrap ES6 Webpack SVN NodeJS Java Java Spring Framework MySQL MongoDB ElasticSearch

## PHC

📅 Sep 2014 - Aug 2016

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

Software Engineer / Web Developer

### Drive FX

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

AngularJS HTML5 CSS3 SASS/SCSS Bootstrap ES6 TypeScript Grunt Git VB.NET Visual Studio 2012

## Coriant

📅 Apr 2010 - Jul 2014

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

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

📅 Oct 2008 - Mar 2010

[www.dieboldnixdorf.com/en-us](http://www.dieboldnixdorf.com/en-us)

Software Engineer

### TPLinux project

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

### Proview project

PoC (Proof 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)

## Siemens / Nokia Siemens Networks

📅 Jan 2005 - Sep 2008

[www.siemens.com/global](http://www.siemens.com/global)

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