

RICARDO SILVA

Software Engineer

📍 Porto, Portugal
☎ +351 933 691 564
✉ me@ricardosilva.pt

🌐 kalstong.github.io
🔗 github.com/kalstong
🌐 [ricardoasilva](https://www.linkedin.com/in/ricardoasilva)

WHO AM I?

Driven by personal and professional growth, I am a customer-focused and goal-oriented individual who thrives in collaborative environments. As a proactive and organized team player, I possess a strong enthusiasm for technology and embrace the challenges it presents. With a can-do attitude and initiative in problem-solving, I take responsibility for achieving results while maintaining a respectful and self-confident behaviour. Furthermore, my strong cultural values of justice, equity, and dignity guide my interactions and enable me to establish and maintain positive working relationships with individuals from diverse backgrounds. I constantly seek to enhance my skills and contribute to the success of the team, ensuring that customer satisfaction remains at the forefront of my work.

MOST RECENT TECHNOLOGIES, FRAMEWORKS AND PRACTICES:

Javascript

Typescript

Node.js

React.js

Docker

MongoDB

MS SQL

Rabbit MQ

Agile

C#

CI

NGINX

EXPERIENCE

7/2020 – Present
Porto, Portugal

Freelancer Software Developer

ICNEW Tech

Key responsibilities/ Worked on:

- Study and analyze software architectures for the IOne Product.
- Develop a low-code application to process, manipulate, and produce data.
- Proof of Concept of a low-code UI and Backend, built in React.js
- Develop a backend to support a low-code UI.
- Develop Authentication services for User/Password and LDAP systems.
- Develop an application to interface with Barcode and QR Code scanners.
- Develop an OPC UA client to acquire data from factory floor/OT environment.
- Study and implement a software monetization solution.
- Develop a Native Node.js module written in C++ to interface with the monetization solution
- Create a reverse proxy with Nginx

Node.js / React.js / Redux / REST / Docker / Sockets / Linux / C++ /
RabbitMQ / MS SQL / MongoDB / Nginx / Event-Sourcing / Azure DevOps /
Azure Pipelines / Agile

9/2019 – 11/2020
Porto, Portugal

Freelancer Software Developer

BISECT

Worked on:

- Live IP Software Toolkit to assist EBU members in the implementation of IP based facilities
- ST 2110 Signal Generator and Diagnostic Appliance - Matrox VERO
- Reverse proxy with Nginx
- Firewall configuration with IPTables
- WebRTC for ST 2110 live player (research)

Node.js / React.js / REST / Docker / Nginx / Bonjour (ZeroConf) / Sockets
/ Linux / RabbitMQ / MongoDB / Webrtc / Agile

12/2019 – 2/2020 Porto, Portugal	Freelancer Software Developer Improvements in software that offers users free WiFi through Social Hotspots.	Sinal Principal
	ASP.NET MVC / Umbraco / MS SQL / MikroTik Router	
1/2018 – 9/2019 Porto, Portugal	Software Architect Key responsibilities:	MOG
	<ul style="list-style-type: none"> • Research and implement a software monetization solution. • Study and analyze frameworks to develop architectural solutions. • Evaluate and analyze APIs and SDKs for system integrations. • Offer technical support to the Technical Assistance Team. • Document architectural solutions. • Mentor students during Summer Jobs. • Consultancy and identification of customer needs. 	
	Docker / K8s	
5/2015 – 12/2017 Porto, Portugal	Software Engineer and Team Leader Key responsibilities:	MOG
	<ul style="list-style-type: none"> • Provide guidance to an engineering team. • Assist in architecting and developing the transformation of a monolithic product into a micro-service based product. • Consultancy and identification of customer needs. • Conduct software demonstrations. 	
	C# / SOAP / REST / XML / XSD / JSON / RabbitMQ / Sockets / MongoDB	
4/2012 – 4/2015 Porto, Portugal	Software Developer Key responsibilities:	Shortcut
	<ul style="list-style-type: none"> • Software Developer. • Project Manager. • Co-supervisor for dissertations and mentor for internships. • Advocate for the "Management System of Research, Development, and Innovation" ideas. • Responsible for NP 4457:2007 certification. 	
	Key projects:	
	<ul style="list-style-type: none"> • Telemedicine platform developed in partnership with PT Inovação • Remote school platform developed in partnership with PT Inovação to provide school classes for sick children • Android accessibility App for seniors • Android App for Águas do Porto to measure the water consumption 	
	C# / ASP.Net / ASP.NET MVC / Entity Framework / Javascript / JQuery / HTML5 / Node.js / Sockets / WebRTC / Android / Java / DICOM / MS SQL / MySQL / Umbraco / Sharepoint	
2010 – 4/2012 Porto, Portugal	.NET Developer Key responsibilities:	CESAE
	<ul style="list-style-type: none"> • Development of a web platform for Training Management. • Supporting the implementation and publication of the platform both nationally and internationally. • .NET Technology Trainer. 	
	C# / .NET Framework / LINQ / ASP.Net / Javascript / JQuery	

- 6/2008 – 7/2010 **Company Owner** Techtronika
 Porto, Portugal
 Key responsibilities:
- Being responsible for the store's technical and business management.
 - Being responsible for technical assistance.
 - Being responsible for invoicing and contact with suppliers.
- Observation: The business was sold as soon as I finished my degree.
- 5/2006 – 6/2008 **Store Manager and Computer Technician** Higher Functions
 Porto, Portugal
 Key responsibilities:
- Collaborating with another new store manager to completely restructure the store's technical and business team and define new procedures and management methods.
 - Being responsible for invoicing and maintaining contact with suppliers.
- Observation: The results of the implemented changes were highlighted in an article in the journal "Exame Informático" in April 2008. Higher Functions decide to close the store in Jun 2008. Seizing the opportunity presented by the article, I decided to open my own store.
- 6/2004 – 5/2006 **Software Developer** Team Technologies
 Porto, Portugal
 Key responsibilities:
- Rewrite legacy code to .Net
- C# / .NET Framework

EDUCATION

- Issued Oct 2014 **Certified Scrum Master** Scrum Alliance
 Credential ID: 000360296
 Expired on Oct 2016
- 2010 – 2012 **Postgraduate in Computer and Medical Instrumentation** Instituto Superior de Engenharia do Porto
 Developed applications for:
- Mobile environments (Android and Windows) using various technologies.
 - Image processing, segmentation, and visualization utilizing the following technologies: Insight Toolkit (ITK), Visualization Toolkit (VTK), C++, C#, and DICOM.
- Issued Oct 2009 **Cisco Certified Network Associate - CCNA** Instituto Superior de Tecnologias Avançadas
- 2007 – 2010 **Licentiate degree - Computer Science** Instituto Superior de Tecnologias Avançadas
 Complementary Training:
 Financial Calculation; Project management; Networks and Systems Administration.
- Two times winner of the best project of the year with the following projects:
- Human Resource Management System: Developed in Silverlight, with both Desktop and Web versions, interconnected with Windows Communication Foundation, Windows Workflow Foundation, and SQL Server 2008.
 - Web platform to manage different domains under the same DNS/EMAIL/WEB Server, capable for monitoring and locating geographically distributed appliances: Developed using PHP, MySQL, Google Maps, Perl, JSON, and modification of Nagios platform notification scripts.

LANGUAGES

Portuguese - native
English - B2

HOBBIES AND DEDICATIONS

Being Husband and father of 3
 Crossfit
 Listen Podcasts
 Wood Work

HOMELAB AND PROJECTS

SonarQube
 Arch Linux dot files
 QRSpot - Digital Bell