# Duarte Vital


## Personal Information

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Residence: Lisbon, Portugal


## Summary


Detail-oriented and results-driven Software Engineer with four years of hands-on experience in software development. Proficient in **.NET Core** for the back end and **Vue.js** for the front end.

Adept at designing and implementing complex web applications, ensuring optimal performance and readable code. Proven ability to collaborate with cross-functional international teams, meet project deadlines, and adapt to evolving technologies.

Committed to continuous learning and staying current with industry best practices.


## Education

### Bachelors in Computer Engineering

ISCTE – Instituto Universitário de Lisboa [ 08/2015 – 07/2018 ]

### Masters in Computer engineering

ISCTE – Instituto Universitário de Lisboa [ 09/2018 – 12/2020 ]

## Experience

### CDI – Conseils et Développements Informatiques, S.A

Full-stack Software Engineer [11/2021 – 03/2024]

### VTXRM – Software factory

Front-end Software Engineer [06/2020 – 06/2021]

### Timestamp – Sistemas de informação, s.a

DevOps Engineering Intern [03/2020 – 06/2020]

## Languages

Native language: Portuguese

Other languages:

| | UNDERSTANDING | SPEAKING | WRITING |
|---|---|---|---|
| English | C2 | C2 | C2 |

## Projects

### Web Development

November 2021 – March 2024

### Health System

Description:

As a Software Engineer, I played a role in the development of a comprehensive system aimed at facilitating the monitoring, scheduling, and registration processes for breast cancer patients within the Irish health system. This innovative system was meticulously crafted to streamline healthcare workflows, enhance patient care, and optimise administrative processes.

Employing the .NET Core capabilities, the backend infrastructure was developed by implementing robust APIs, data models, and business logic.Utilizing best practices and design patterns, I ensured scalability, reliability, and maintainability of the system.

As for the frontend, Vue.js framework was used to craft an intuitive user interface by implementing dynamic data visualisation, interactive forms, and responsive layouts.

Technologies:

.NET Core, C#, SQL, Vue.js, Typescript

### Web Development

June 2020 – June 2021

### Vehicles Financial Management

Description:

During this 1 year period, I have contributed to the development and maintenance of a Multi-Page Web Application that was used as a tool for enterprise financial management for commerce and trading of motor vehicles. Amongst others, my functions involved design enhancements, code optimizations, bug fixing and implementation of new functionalities upon client request.

All this was done following the programming model of ASP.NET WebForms with C# as the main programming language, followed by some JavaScript and SQL.

Technologies:

C#, ASP.NET WebForms, SQL, Angular, Javascript

### Desktop Development

March 2020 – November 2020

### Air Pollution Analysis

Description:

For my final masters thesis project, I developed a Desktop app aimed at environmental experts to share their knowledge about air pollution emissions in an intuitive and visually pleasing way. Functionally, by executing this application an interactive map is displayed, and by zooming in to this map it is then automatically topologically segmented. In other words, polygons are automatically drawn over objects in the map (blue polygons for buildings, purple for roads, and green for green spaces). Essentially, the goal was for the user to create a pollution map by selecting objects and estimating a value for air pollution emission that are produced by the latter. By doing this, a heat map would be gradually generated in order to better illustrate the amount of pollution defined by the user.

The application was built by using the Electron framework, based on NodeJS, as well as JavaScript for all the logic and HTML/CSS for the UI. Additionally, the Mapbox GL JS API was used to display the map, generate the heat map and some other things related to it.

This project then gave way to an article published in the International Journal of Creative Interfaces and Computer Graphics (IJCICG).

Article:
https://drive.google.com/file/d/1P4epbvgIzc643aD9tOOhYUTTW4vbRGlm/view

Thesis:

https://drive.google.com/file/d/1A70A9vPRd5NcPuEXJa40KyD941OwWrAn/view

Technologies:

JavaScript, HTML, CSS