Ricardo Cavalheiro

SOFTWARE ENGINEER

Profile

I am a **Software Engineering student** from Porto on the final year of my bachelor's degree, with a strong passion for technology and innovation.

I have a strong foundation in both front-end and back-end technologies and I'm proficient in a wide range of programming languages and frameworks, priding myself on my strong technical skills, problem-solving abilities, and ability to work well in a team.

Projects

Transport Network Management

Designed an application to find the best path between two places based on traveled distance, pricing or line changes. The project database was from STCP (Sociedade de Transportes Coletivos do Porto) and was developed in C++.

Skills & competences:

- Sorting Algorithms
- Shortest Path Algorithm (Dijsktra, BFS, DFS, Kruskal, Bellman-Ford, Edmonds-Karp)
- Data Structures (Graph, Heap, Stack, Queue, Binary Tree)

Website Development

Development of a system with a web interface to support an online auction service.

Skills & competences:

- Database Specification (UML Diagram, Relational Schema, Schema validation)
- Indexes, Transactions, Triggers, Database Population
- Designed Wireframes and Requirements for the Project
- In-depth Learning of HTML, CSS (Bootstrap), JavaScript, PHP (Laravel Framework), PostgreSQL, Ajax

Game Delevopment

Designed a Bomberman game using Java as a Object-Oriented Language.

Skills & competences:

- In-depth Understanding of Git
- Unit Testing using JUnit (Mocks and Stubs using Mockito)
- Design Patterns (Factory-Method, Command, State, etc..), Architectural patterns (MVC), Code Smells and Refactoring techniques

Education

Bachelor's degree, FEUP, Porto

SEPTEMBER 2020 — PRESENT

Student of Engineering and Computer Science at Faculdade de Engenharia da Universidade do Porto. I am constantly learning and expanding my knowledge in the field of technology.
Current academic year: 3

Extra-curricular activities

Football Player

Currently playing at A.D Esposende. Been playing since i was 10.

Details

Porto
Portugal
913143918
ricardo18-4-2001@hotmail.com

DATE OF BIRTH

18/04/2001

Links

LinkedIn

GitHub

Instagram

Skills

C++

HTML/CSS/JavaScript

PHP

C

SQL

Python

Haskell

Java

Microsoft Excel

Assembly

Prolog

Git

Flutter

Laravel

PostgreSQL

Dart

Languages

Portuguese

English

Spanish