António Silva

COMPUTER ENGINEER

Braga, Braga

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Education _

Escola EB 2,3 de Gualtar

Braga

2013 - 2018

Braga

Braga

Escola Secundária Carlos Amarante

Science and Technology Course

Final Average of 18.22 values 2018 - 2021

Universidade do Minho

Degree in Computer Engineering

2021 - 2024

Certifications

Academic Merit (x8)

Braga

Agrupamento de Escolas Carlos Amarante 2013-2021

Certificate in Advanced English (C1)

Cambridge Assessment English december 2020

Projects _____

Online auction platform

Universidade do Minho - Computer Labs IV

AntonioSilva03/Projeto-LI4

september 2023 - january 2024

- Platform for creating auctions containing skins from the Counter-Strike game
- Platform composed of 3 layers: Database, Business Logic and User Interface
- Basic authentication with email and password, with which each user can create auctions, bid on auctions and view their auction history
- Admin Dashboard
- Tools Blazor, Microsoft SQL Server, HTML, CSS

Curricular Units Site Generator

AntonioSilva03/Projeto-EngWeb

Universidade do Minho - Web Engineering

may 2024 - june 2024

- Platform to generate web pages that support curricular units
- Three types of users (student, teacher, admin)
- In this app, CU teachers can make files available and post information about the CU (evaluation, timetables, teaching team).
- All of this content can be consulted by students who enter the UC.
- Architecture divided into 3 layers: interface, authentication server, API and database
- Authentication with JWT
- Tools Express, MongoDB, JWT, Docker

3D Engine

AntonioSilva03/Projeto-CG

Universidade do Minho - Computer Graphics

february 2024 - june 2024

- In this project, a 3D engine was developed based on 3D mini-figure graphics.
- It was divided into four phases and, in each phase, a set of configuration XML files was provided for testing and evaluation purposes.
- It was possible to create 3D scenes, such as the creation of a cube, a plane, a sphere, a cone, a cylinder and even a solar system, with realistic planet rotation.
- · A system of manually geometric transformations, a camera system and a lighting system were implemented.
- Tools OpenGl, C++.

Task orchestration service on a computer

Universidade do Minho - Operating Systems

AntonioSilva03/Projeto-SO march 2024 - june 2024

- The server runs infinitely, persistently waiting for client requests.
- The client can request a task execution, a program pipeline or a server status.
- The server can run with two scheduling policies that must be passed as an argument.
- You can test the execution times of multiple policies with the same tasks
- Tools C

Development of a system interface

Universidade do Minho - Person-Machine Interface

AntonioSilva03/Projeto-IPM march 2024 - june 2024

- Interface for mechanics at a service station
- Multiple states for a service
- · Possibility to change details
- Pinia was used to implement the application state
- Backend implemented with json-server
- Tools Vue

Service station management systems

Universidade do Minho - Software Systems Development

AntonioSilva03/Projeto-DSS september 2023 - january 2024

- This system helps the operation of an E.S.Ideal station.
- · Various diagrams to help understand the system
- Provides its customers with various car booking and maintenance services.
- Two types of users: manager and mechanic
- Architecture implemented using a database.
- Tools Java, SQL Server and Visual Paradigm.

Database of a fictitious Hospital

Universidade do Minho - Database

AntonioSilva03/Projeto-BD

february 2022 - june 2023

- Definition of a hospital's information system and human resources
- Requirements Gathering and Analysis
- Conceptual and logical modeling of the database
- Physical implementation of the database and a database management system
- Data Analysis Panel System
- Tools SQL, PowerBI, brModelo

Peer-to-Peer file transfer service

Universidade do Minho - Computer Communications

AntonioSilva03/Projeto-CC

october 2023 - december 2023

- A peer-to-peer file transfer service allows clients to more efficiently transfer data from multiple nodes (seeders) by transferring different parts of packets in parallel.
- There is a central entity that handles connections and controls which files each node has
- It is also possible to consult the files that are being shared at that moment directly in the program, as well as delete files.
- Use of TCP and UDP
- Tools Java

Learning and decision models

Universidade do Minho - Smart Learning and Decision

🞧 AntonioSilva03/Projeto-ADI

march 2024 - june 2024

- This project is divided into two separate tasks. The first task consists of querying, exploring, analyzing and preparing a dataset chosen by us. The second task consists of the same basis, but this time on a dataset chosen by the teachers.
- As the dataset chosen by the teachers normally demonstrated a Classification problem, the dataset we decided to choose normally demonstrated a Regression problem.
- All models in detail as well as results and analysis can be found in one report.
- Tools KNIME

Messaging services

AntonioSilva03/SSI2324

Universidade do Minho - Computer Systems Security

february 2024 - june 2024

- · Repository with all practical work carried out in the IT Systems Security course and laboratory guides.
- TP1: encrypted message exchange service that uses the Diffie-Hellman protocol. x503 certificates and the Station-to-Station protocol are also used.
- TP2: Concordia application. Message exchange service that works with users and groups on the Linux system. It is possible to send messages to a single user or to a group made up of several users.
- Tools Python, C

Forth Compiler

AntonioSilva03/Projeto-PL

Universidade do Minho - Language Processing

may 2024 - june 2024

- Compiler for the Forth language that generates code for a virtual machine
- Translator grammar based on PLY-Yacc
- Lexical analyzer implemented with PLY-Lex
- Tools Python

Skills _

Programming C++, C, C#, Python, Java, JavaScript, Haskell, HTML, CSS

languages

Frameworks Vue, Blazor, Express

Tools Git, Docker, MongoDB, SQL Server

Spoken Languages Portuguese, English

Soft-skills Teamwork, Communication, Time Management, Troubleshooting, Adaptability, Bug find-

ing