Mihalache Rares-Andrei

Software Engineer Internship

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EDUCATION

Computer Science Degree
Politehnica University of Bucharest
Faculty of Automatic Control and Computer Science

10/2016 – present
BUCHAREST,
Romania

High School Diploma
Colegiul National Sf. Sava Bucuresti
Mathematics and Informatics
Grade: 9.90

09/2016 – 06/2020
BUCHAREST,
Romania

PROFESSIONAL EXPERIENCE

Remsquare
Web Developer
Remsquare is a web development agency that me and my co-founder started by accessing an European Union Grant. Since the establishment, the company has created websites for more than 10 local and international customers and planned multiple social media marketing campaigns. My role was to coordinate the projects, develop the technical solutions and interact with the customers.

06/2022 – 06/2023
BUCHAREST,
Romania

Procter & Gamble
IIoT Engineering Internship
The internship at Procter & Gamble gave me the opportunity to work in a great team and learn a lot about the IIoT (Industrial Internet of Things) field. My role during this period was to build data visualisation dashboards using PTC's Thingworx platform. These dashboards would then be used by line managers in factories to make key strategic choices.

04/2022 – 07/2022
BUCHAREST,
Romania

SKILLS

Object Oriented Programming
C++, Python

Web Development
JavaScript

Front-end Development
React.js

Back-end Development
Node.js

Database Development
MSSQL, MySQL

PROJECTS

Tourism Management Dashboard
React.js, Node,js, MySql
The project consisted in creating a full stack application for managing the available tours in a tourism agency. The project was split in 4 different parts: front-end, back-end, DB and testing.

10/2022 – 01/2023

To complete the project I've used the following technology stack: React.js, Node.js, MySQL.

It was a great opportunity to learn how you can use an interface to interact with a back-end server and then process data in a SQL DB.

Python Watermarking Tool   2023

Python

A python based application that allows users to apply a watermark over a given image. The requirements of the project were:

   Graphic interface
   Custom watermark upload
   Watermark positioning and adjusting

Smart Lock Interface   2023

React.js and Web-sockets

Built a web interface through which the users to control the functionalities of a smart lock. The "smart lock" was an actual box that had a raspberry pi board inside and that communicated with the interface through 2 web-socket servers. Web-sockets allowed me to:

- send a constant video feed from inside the smart lock to the interface
- have a real time communication between front-end and back-end

Chrome Notes Extension   2023

Ongoing personal project

A tool that will allow anyone with a compatible browser to take quick notes while researching a topic. The purpose of the project is to create an useful and simple to use "digital agenda".

NFT Fame   01/2021 – 05/2021

Crypto currency project

Created and deployed a smart contract on the Ethereum network using Solidity as main programming language. The scope of the project was to experiment with blockchain and better understand how this technology works.

CERTIFICATES

Oracle Academy

Database Design and Programming with SQL

Oracle Academy

Java Fundamentals