Andercou Alexandru Stefan

Education

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA
Cluj Napoca, Oct. 2019- Sep. 2023

- Computers and Information Technology (CTI), specialty Computers (CA)

HIGH SCHOOL DIPLOMA , IOAN SLAVICI NATIONAL COLLEGE
Satu Mare, Sept 2015-July 2019

- Class of Mathematics and Informatics Bilingual Enghlish
- Baccalaureate Diploma   (Mathematics 9.60 & Informatics 9.20)

Experience

INTERNSHIP AT AROBS
Cluj Napoca March. 2022- May. 2022

- Worked in a team of 4 within a **SCRUM** framework
- Build a diagnostic system in **C embedded** and **Python**
- Used an external keyboard, **LCD** , **UART** and **I2C interfaces**
- Employed **ATMEGA32PB microcontrollers**, **Microchip Studio** and **PyCharm IDE**
- Implemented the systems for **GPIO** and **Diagnostic system in C**
- Used a Python script to connect the system to a car's hood with **CAN interface**
- Utilized **udsoncan** as a Python library
- Got familiarized with **USD systems**

Projects

ONLINE RESTAURANT USING C# .NET WEB API

- Project for the management of food orders, menus and clients
- The .NET Project uses SQL Server.

MEDICAL MONITORING APPLICATION WITH JAVA AND ANGULAR

- Backend implemented with Java Spring Boot framework
- Web page frontend implemented with Angular V14
- Measurements from medical devices taken with Arduino microcontroller
- Communication done trough a WI-FI network provided by ESP8266
- The application also provides features for managing patients, medical assistants and administrators
- This project represents the practical part of the bachelor thesis

SMART DEVICE POWER MANAGEMENT APP IN ANGUAR AND JAVA

- Written in Angular V14 and Java Spring Boot
- Power measurements managed through RabbitMQ
- Provides two roles: normal users and administrators
- Normal users have the ability to view the measurements of their devices
- Administrators can add and remove devices from users
- Implemented security features using JWT tokens, Java Spring Boot securityand two-factor password change
- Server state updates through web socket

ONLINE BOOKSTORE WITH ANGULAR V14 AND DJANGO

- Web user interface implemented using angular.js with TypeScript, JavaScript, HTML and CSS
- Django and Python used for managing the server side
- Persistence with a MySQL database

ANDROID JOKES APP WITH KOTLIN AND GRADLE

- Used architecture of Model View - View Model (MVVM), Fragments and List Adapters
- Employed Retrofit, Moshi Converter and OkhttpClient libraries
- Data extracted from a web API
- Key features:
  - sorting for categories of jokes,
  - adding/removing jokes to/from a list of favorites

Contact Details

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Skills

- Java
- C
- C++
- C#, .NET
- Arduino
- Dart,Flutter
- JavaScript
- TypeScript
- Angular V14
- React
- Android Kotlin,Java
- Python
- MySQL,
- PostgreSQL,
- MongoDB
- Git
- Excell, Word,PowerPoint

Languages

- Romanian
- English (FCE - B2)
- German (A2)