



Alexandra-Ştefania Ivan

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LINKS

[GitHub](#)

[Online CV](#)

PROFILE

I am a recent university graduate with a strong foundation in programming, algorithms and databases. Through university projects I gained practical experience in designing and implementing software solutions. I am looking forward to applying my technical skills in a professional IT environment, learning and contributing to impactful projects.

EDUCATION

Technical University of Cluj-Napoca, Faculty of Automation and Computers, Computers and Information Technology

Oct 2021 — Jul 2025, Cluj-Napoca

PROJECTS

Distributed Energy Management System

https://github.com/stefaniaivan/Sisteme_Distribuite - Through this project, I learned to use RabbitMQ for exchanging messages between application components, web sockets for implementing communication functionality between users, and Docker to containerize the application.

Airline Tickets Website

https://github.com/stefaniaivan/Proiectare_Software - Through this project, I learned the structure of a backend application, how to integrate and use SQL and Jpa at the level of such an application, and I made HTTP calls using Postman.

https://github.com/stefaniaivan/Inginerie_Software - I also implemented a frontend application for the website using React.

Polynomial Calculator

https://github.com/PT202330227IvanStefania/PT2023_30227_Stefania_Ivan_Assignment_1
For this topic, I learned how to structure code into multiple classes in order to perform different tasks, worked with more complex data structures, and created unit tests to verify the correctness of mathematical calculation results.

Customer queue management system

https://github.com/PT202330227IvanStefania/PT2023_30227_Stefania_Ivan_Assignment_2
For this topic, I was able to observe the functionality of threads in an application and how synchronization issues are addressed.

Application for a warehouse

https://github.com/PT202330227IvanStefania/PT2023_30227_Stefania_Ivan_Assignment_3
Through this project, I learned how to connect a database to a Java project in order to manipulate data and how to apply SQL concepts in such an application.

SKILLS

C

Java

SQL

TypeScript

Html

CSS

LANGUAGES

English

French

Spanish