

# Sorodoc Tudor-Cosmin

Location: Iasi, Romania

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## COMPUTER SCIENCE STUDENT

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I am a dedicated and hardworking Computer Science student in my final year, with a strong desire to further my professional development. Eager to enhance my skills and broaden my knowledge in the field, I approach every challenge with enthusiasm and a keen eye for detail. I am looking to be part of a team with a similar mindset to play a part in the growth of a company.

## EDUCATION

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### "Alexandru Ioan Cuza University"

Faculty of Computer Science (GPA: 9.5/10)

Iasi, Romania

Oct 2021 – Present

## SKILLS

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| <b>Technical</b> | : Fluency in both written and spoken English (First Cambridge Exam)<br>: C/C++, C#, Java, Python, Php, Html, Css, JavaScript, Sql<br>: Object Oriented Programming, Data Structures & Algorithms, Computer Networks, Machine Learning |
| <b>Soft</b>      | : Team player, punctual, attention to detail, organizational skills, used to working with deadlines   |

## OPEN SOURCE

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### Graph4J

Java

[Source Code](#)

- Contributed to an open-source Java library focused on graph manipulation
- Implemented and rigorously tested Boruvka's algorithm and its parallel variant for optimal efficiency and performance showing a **70%** increase in speed compared to equivalent functionalities in JGraphT

## PROJECTS

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### FeedbackHHC

Python, Streamlit, PostgreSQL, Git

[Source Code](#) | [Demo](#)

- Led a team of five to develop this project, analyzing patient feedback for home healthcare agencies during the **Artificial Intelligence** course
- Employed advanced **preprocessing** and **feature selection** techniques to enhance machine learning accuracy for improved patient care assessment
- Achieved **first** place in the Learn and Earn competition by Amazon

### Real Estate Listing Platform

.NET, C#, Blazor, PostgreSQL, Firebase

[Source Code](#) | [Demo](#)

- Collaborated with a team of five to develop an app for listing real estate properties, following **Clean Architecture** and **Domain-Driven Design** principles
- To achieve our project goals and provide the best user experience, we integrated **ML.NET** for price prediction along with third-party APIs such as **Firebase** for image storage, **Google Maps**, **Currency Converter**, and **SendGrid**
- Awarded **second** place in a competition hosted by Centric during the **Introduction to .NET** course

### Train Timetables

C/C++, TCP/IP, Multithreading, MySQL

[Source Code](#)

- Developed a **client-server** application to deliver real-time updates on train schedules
- Efficient delivery of timely updates on train arrivals and departures stored in the MySQL database, accelerated by strategically created **indexes**

### Other projects

Java, Python, PHP, JavaScript, HTML, CSS, Pygame, Multithreading, Azure SQL Database

- [Fruits on the Web](#), [Gomoku](#), [Game of GO](#), [Positional Game](#), [Matrix Robots](#), [Spam Email Filtering](#), [K-means Clustering](#)

## EXTRACURRICULAR ACTIVITIES

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- Teaching computer science** to middle and high school students while undertaking a psychopedagogy module to develop and apply pedagogical skills