



FLOREAN ALEXANDRU-CĂLIN

PROFILE

I am a student at the Technical University of Cluj-Napoca, eager to learn and grow my skills through hands-on personal projects.

CONTACT

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EDUCATION

- **Technical University of Cluj-Napoca, Cluj-Napoca**
(Present)
- **"Vasile Lucaciu" National College, Baia Mare**

SKILLS

- Competent Language Certificate (English - Read/Write)
- Digital Competent Certificate (Experienced)
- Data Structures and Algorithms
- Spring Boot, Java
- HTML, CSS, SCSS
- GIT
- C/C++

PROJECTS

- **JAVA TIC TAC TOE**
The Tic-Tac-Toe game follows the MVC pattern to separate concerns between game logic, user interface, and user interactions. It features three gameplay modes: Player vs. Player, Player vs. Computer and Computer vs. Computer. The GUI is implemented using Java Swing, providing an interactive and user-friendly experience. The Player vs. Computer mode utilizes the Minimax algorithm, ensuring that the AI always makes the optimal move, making it impossible for a human player to win.
- **Personal Website**
The project was developed using HTML and CSS, providing a clean and responsive design. It showcases relevant information such as projects, skills, and contact details. The site is deployed using GitHub Pages, ensuring easy access and seamless updates directly from the repository.
- **Java Quiz**
This application is a simple multiple-choice quiz game developed in Java using Swing for the graphical user interface. The design follows the Model-View-Controller (MVC) pattern, ensuring maintainability. It allows easy future enhancements, such as adding more questions, improving the design, or extending functionality.
- **Spring Boot API Project**
Currently developing a basic REST API using Spring Boot with a 3-Layer Architecture (Controller, Service, Repository). I am implementing JWT-based authentication and authorization for secure access to endpoints, handling CRUD operations via HTTP requests and persisting data in a PostgreSQL database.