



CAZAN MADALIN

Student & Teacher



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About me

I study Applied Informatics at the Faculty of Mathematics and Computer Science in Brasov, and I'm always looking to **grow** and **learn** more about myself and the world around me.

I love **exploring new ideas** and perspectives. I have a **logical** mindset and often find myself asking, "Why?"—a question that keeps me **curious** and pushes me to understand how things work on a deeper level.

In my free time, I love being **outdoors**—whether it's hiking, skiing, or playing volleyball. I also enjoy cooking and going out with my friends. Besides I have a strong interest in **psychology** and **philosophy**, always looking for new ideas that **challenge** the way I think.

Projects

Calculator - <https://github.com/c-madalin/Calculator>

A functional calculator developed using **WPF** and **C#**, providing essential arithmetic operations and advanced features like **memory management** and **programmer** mode. The project utilizes the **MVVM** pattern for clean and maintainable code and implements **XAML binding & commands** for efficient event handling.

Lan Chat - https://github.com/c-madalin/Server_Client_Chat

Designed and implemented a **multi-client** chat application using **C++** and the **Winsock2** library. The server, hosted on an **Android** device via **Termux**, successfully broadcasts messages to all connected clients. Clients are **able to connect** to the **server** over a local **network**, facilitating real-time communication among them.

Student Management System - <https://github.com/c-madalin/Springboot-Student-Catalog>

This project is a **student record management** application developed in **Java** using the **Spring Boot** framework. It integrates a **PostgreSQL** database for data storage and features a **web-based interface** built with **Thymeleaf**, HTML, and CSS. This project demonstrates skills in **backend development**, database integration, and web UI design, making it a well-rounded full-stack application.

AFD & Regex Compiler - <https://github.com/c-madalin/Compiler>

Implemented a **Deterministic Finite Automaton** (DFA) in C++ to verify string acceptance by a deterministic automaton. **Developed a Regex Compiler** in **C#** using **ANTLR4** to convert **regular expressions** into equivalent finite automata and generate corresponding C++ code. The project includes support for reading automaton configurations from files and validating strings.

Museum Exploration - <https://github.com/c-madalin/AntipaMuseumProject>

Digital Exploration of the Antipa Museum - Developed in C++ using **FreeGLUT**, **OpenGL**, **GLFW**, **GLFV**, and the Standard Library, this project offers a 3D digital tour of the Antipa Museum. By leveraging 3D models, textures, shaders, and fragment/vertex processing

Youtube: https://www.youtube.com/watch?v=_X5oz5oPRhQ

Graph visualization- <https://github.com/c-madalin/GraphDraw>

This project is a **JavaFX**-based application that allows users to **create and visualize** graphs. Users can add nodes and edges, adjust weights, and apply various graph traversal and pathfinding algorithms in real time. (dijkstra, bfs, dfs)

Education and Training

Applied Informatics – UNITBV (2nd year) (2023–Ongoing)

–I've learned essential concepts like **data structures**, algorithms, and mathematical fundamentals, including probability and linear algebra. Throughout my courses, I've worked with languages like C/**C++**, **Java**, Python, and .NET, while also gaining **experience** with software development tools and environments.

Sales Bootcamp – AIESEC (March 2024)

–I participated in a comprehensive training program and a series of **workshops** focused on developing essential **skills** for **sales**. The experience provided me with valuable insights into **sales strategies**, communication techniques, and **negotiation skills**. Throughout the bootcamp, I had the chance to collaborate with experienced professionals

CST Academy– Cornerstone Technologies International (February 2025– Ongoing)

–a program where I had the opportunity to learn how to develop **Android applications** using **Android Studio**, Java, and **Kotlin**. The courses were designed to give us a **solid understanding** of the mobile **app development** process, from designing user interfaces to implementing advanced features.

Build the software, Build the future – Elektrobit (February 2025– Ongoing)

–a hands-on course focused on **software engineering**, covering topics like **requirements** engineering, **software** design, **agile** methodologies, and **cybersecurity**. The course provides insights into professional software development practices, emerging technologies, and key industry trends. The course offers both theoretical knowledge and practical advice to help you build the **skills** necessary for shaping the **future** of software

Innovation Labs– Hackathon (March 2024)

–a competition where students pitched **IT-based business ideas** for the chance to bring them to life. The event offered a platform for innovation, with access to **training**, mentorship from experienced professionals, and potential investor sponsorship. My team and I tried **developing** a real-time **tracking application** for vehicle fleets, including cars and buses, aimed at providing a **customized solution** for fleet management by integrating all relevant data into a comprehensive platform.

Data Marketing: Track, Visualize, Analyze –Data Revolt (March 2025– Ongoing)

This course provides a basic introduction to **Google Tag Manager** (GTM), a powerful tool for managing and deploying **marketing tags** without modifying website code.

Volunteering

Sales (member) – AIESEC (October 2023– January 2024)

AIESEC is a global student organization present in over 100 countries, focused on developing **leadership skills** in young people through practical experiences, cross-cultural internships, and opportunities to create a positive societal impact.

–as a member of the Sales team, my **role** involved **establishing partnerships** with potential collaborators, including schools, after-school programs, and institutions, to launch a **Global Volunteering** project. The initiative brought an **international volunteer** who, for 8 weeks, taught a course based on one of the **United Nations' sustainability goals**. The project aimed to raise awareness among students about global issues and foster a deeper understanding about sustainability

Project Manager on Partnership Development– AIESEC (January 2024 – August 2024)

–I **led** the team overseeing a Global Volunteering project in a local school, where I served as the **primary** point of **contact** between AIESEC and its partners. My role focused on **developing and maintaining** strong **relationships** with collaborators, ensuring effective **communication** and alignment with project objectives. I managed the partnership dynamics, facilitating cooperation between AIESEC and the local school, ensuring that all activities were executed **smoothly** and **in line** with the project's goals. My responsibilities also included **addressing** any issues that arose and fostering a positive, collaborative environment throughout the project's duration.

Teacher – Learning Refactored Association (October 2024 – ongoing)

–I **teach** Scratch to children as part of the CoderDojo initiative, organized by the Learning Refactored Association. The primary goal of the program is to provide free coding education to students in schools. In this role, I guide young learners through the basics of coding, using interactive lessons and hands-on activities to spark their interest in technology and foster their problem-solving skills.