



SIMINA DAN-MARIUS

STUDENT AT TECHNICAL UNIVERSITY
OF CLUJ NAPOCA



CONTACT

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EDUCATION

2022 - PRESENT

TECHNICAL UNIVERSITY OF
CLUJ-NAPOCA

- Computer Science and Information Technology

2018-2022

LICEUL TEORETIC "AUREL
VLAICU" ORĂȘTIE

- Mathematics-Informatics

CISCO IT ESSENTIALS: PC
HARDWARE AND SOFTWARE

CISCO CCNA R&S: ROUTING
AND SWITCHING ESSENTIALS

ECDL PROFIL BAC
ID: RO-C-86262

SKILLS

- Data structures and algorithms
- Object-Oriented Programming
- Database design
- Operating Systems
- Intelligent Agents
- C/C++, Java, Python, C#
- MySQL
- VHDL
- GitHub
- Networking
- Problem-solving
- Teamwork & Communication

LANGUAGES

- Romanian: Native
- English: Fluent

PROFILE

A dedicated student with a strong passion for technology, highly motivated to expand my knowledge and skills in this field. I am eager to contribute to and learn from a dynamic team, fostering both personal and professional growth. Currently a third-year student at the Technical University of Cluj-Napoca.

MY EXPERIENCE

- Participation in the national stage of the National Olympiad of Applied Informatics AcadNet - 2021, 2022 ([GitHub](#))**
- Fundamental Algorithms - C/C++ ([GitHub](#))**
Evaluate algorithm performance, compare performance of different algorithms, identify a solution to a given problem.
- Object-oriented programming - JAVA ([GitHub](#))**
OOP principles (encapsulation, inheritance, polymorphism, abstraction) and fundamental programming techniques.
 - Polynomial Calculator ([GitHub](#)):** Calculator with a Swing GUI, supporting arithmetic operations, regex-based input validation, MVC architecture, and JUnit testing.
 - Queue Management Simulation ([GitHub](#)):** Multithreaded queue system with real-time GUI updates, optimized client allocation, and statistical tracking, ensuring thread safety and synchronization.
 - Order Management System ([GitHub](#)):** Warehouse order management system with a layered architecture, MySQL integration, CRUD operations, and reflection-based database queries.
- Database - MySQL + JAVA**
Medical Clinic Management System ([GitHub](#)): GUI application with a MySQL database, utilizing functions, stored procedures, triggers, and SQL queries. Manages operations in a clinic network with role-based access.
- Operating Systems - Linux ([GitHub](#))**
 - File System Module ([GitHub](#))
 - Processes and Threads ([GitHub](#))
 - Inter-Process Communication Mechanisms ([GitHub](#))
- Intelligent Agents - Python ([GitHub](#))**
Implementation of search algorithms and adversarial agents for pathfinding and strategic decision-making in the Pac-Man world.
- Formula 1 Grand Prix Simulation - OpenGL ([GitHub](#) / [GoogleDrive](#))**
- Efficiently processing sensor data using a microcontroller - Arduino + Windows Forms .NET ([GitHub](#))**
Developed and compared basic and Welford-optimized Z-Score implementations on Arduino for sensor data, in single-tasking and simulated multitasking. Used a Windows Forms app for visualization.
- Tic-Tac-Toe with GUI - Assembly Intel x86 ([GitHub](#))**
- MIPS architecture - VHDL ([GitHub](#))**
MIPS processor, featuring both single-cycle and pipelined architectures.