Mureșan Raul-Călin - CV

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GitHub: https://github.com/raul-muresan03

EXPERIENCE

IT Junior

Programming Tutor (Part-Time) *Jun 2024 – Present*

- I teach kids programming in C, C++, Python, Scratch, and even classical AI, tailoring lessons to their interests and abilities.
- I create engaging and hands-on projects that make even complex concepts like AI approachable and fun for young learners.
- This role has taught me how to explain technical topics clearly and adapt to different learning styles, greatly improving my communication and people skills.

EDUCATION

Technical University of Cluj-Napoca (TUCN)

3rd Year Computer Science Student *Expected Graduation, 2026*

- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence & Object-Oriented Programming.

PROJECTS (the repos are on my GitHub - https://github.com/raul-muresan03)

NoteFlow (React, Next.js, Node.js, Typescript, Convex, Tailwind CSS)

- NoteFlow is a powerful app for creating, editing, sharing, and syncing notes real time. Built with React, Convex, and Tailwind CSS, it offers an intuitive interface and robust collaboration features. Users can share notes with others, making work more fun and efficient. Perfect for personal use or team projects, NoteFlow streamlines note-taking and enhances productivity with its modern, user-friendly design.

Questify (React, Next.js, Typescript, Tailwind CSS, Java, Spring Boot, PostgreSQL)

- Questify is a Q&A platform that allows users to post questions and receive answers, with an upvote/downvote system to rank responses. Built using modern web technologies, it ensures a seamless experience for users looking for knowledge exchange.

Security System with Motion Detection and Email Notification (Arduino, C++)

- Developed using Arduino IDE, with an Arduino UNO R4 WiFi board, a motion sensor, and a temperature and humidity sensor. The system sends an email notification when motion is detected. I used the IFTTT web service to set up the trigger and action for the email notification.

ALU (VHDL, C)

- ALU (Arithmetic Logic Unit) capable of doing floating point calculations, written in VHDL, in the Vivado development environment. The user has the option to enter the operations from the software application, written in C, in the Vitis development environment.

Pacman (Assembly x86)

- Developed during my first year of university, using x86 Assembly. This project taught me a great deal of new concepts and significantly shaped my logical thinking. It sparked my interest in working with Assembly language.

SKILLS

Programming: C, C++, Java, Python, JavaScript, Tailwind CSS, SQL, Node.js, React, MATLAB, VHDL, Assembly, ELM, Haskell, Prolog
Tools: Visual Studio Code, Android Studio, IntelliJ, PyCharm, Git, Vivado, Vitis, Arduino IDE, OpenGL

Programming Contests

Cloudflight Coding Contest (CCC) – 2023, 2024

LANGUAGES COMPETENCIES

Romanian (Native), **English** (Fluent), **French** (Intermediate), **German** (Beginner)