MOROZ LION-ERIK

CONTACT

📞 0753 394 894

✉️ lionerik172@gmail.com

📍 Cluj-Napoca or Satu Mare

🌐 https://github.com/lionerik17

SKILLS

Programming & Software Development
- Low-level programming, algorithms (**C/C++**)
- Object Oriented Programming, GUI development, software engineering (**Java/JavaFX**)
- AI, backend development (Python)
- Full-stack web development (JavaScript/TypeScript)
- Functional programming (Haskell, Elm)
- System architecture, low-level coding (Assembly (x86))

Web & Mobile Development
- Backend development (Python/Django)
- Frontend & mobile apps (React/React Native)
- Web design & styling (HTML, CSS)

Algorithms & Computer Science
- Problem-solving, efficiency (Data Structures & Algorithms)
- Memory & process management (Operating Systems)
- Software design, modular programming (Object-Oriented Programming)

Embedded Systems & Hardware
- Microcontrollers (**C++**, **Arduino**, **ESP32**)
- FPGA design (VHDL)
- Circuit design, PCB layout (EasyEDA)

Databases & Cloud Computing
- Database management (SQL)
- Storage, authentication (Firebase)

Development Tools & Platforms
- Version control (**Git**)
- System administration (Linux)
- Documentation & reports (MS Office, LaTeX)

PROFILE

I am a third-year Computer Science student, eager to learn, adapt, and explore new technologies.
My passions include software and hardware development, music, and video games, which I enjoy both for fun and for their creative and technical aspects.

EXPERIENCE

Hardset   2023 - PRESENT
Embedded Systems Engineer & App Developer

A signaling system with automatic braking for cyclists, designed to be easily mounted on any bicycle helmet.
- Worked on firmware and system integration.
- Designed and developed electronic circuits and PCB layouts.
- Contributed to mobile app for system control and monitoring.

EDUCATION

Technical University of Cluj-Napoca - Computer Science - Bachelor Degree   2022 - PRESENT

5 major projects with C/C++
4 major projects with Java/JavaFX
3 major projects with VHDL
3 major projects with Python
2 major projects with React/React Native + JavaScript/Typescript
1 major project with Assembly (x86)

Ioan Slavici National College - Mathematics-Informatics - Baccalaureate Diploma   2018 - 2022

1 major project with C++ (Informatics Certification Project)

ACHIEVEMENTS

FiX Cluj-Napoca 2024 - Participation

FiX Cluj-Napoca is a business incubator that supports start-ups by providing resources, mentorship, and networking opportunities.
Took part from June 2024 to November 2024.

Cloudflight Coding Contest 40th Edition 2024 - Participation

Cloudflight Coding Contest is a solo or team-based competition with progressively harder levels.
Participated as a team in October 2024 and finished 29th out of 439 participants.

SAS Demoday 2023 - 1st Prize

SAS Demoday is a start-up contest centered on prototypes and business ideas.
Took part in November 2023 in the Prototypes Category.

LANGUAGES

- Romanian (Native)
- **English (Fluent)**
- Hungarian (Intermediate)
- German (Basic)

HOBBIES & INTERESTS

Music & Guitar

Passionate about playing the guitar, exploring various musical styles, and improving my skills through practice and creativity.

Video Games & Game Design

Enjoy playing video games not only for entertainment, but also for analyzing game mechanics, storytelling, and design concepts.

Technology & Innovation

Fascinated by emerging technologies, constantly exploring new advancements in software, hardware, and digital innovation.