Flavius-Andrei Marian

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ABOUT MYSELF

Automation and Computer Engineering student with academic project experience in C on Linux (IPC, sockets, multithreading) and SQL databases (PostgreSQL, MySQL, Oracle). Familiar with basic web development, networking fundamentals and digital electronics.

PROJECTS

[16/10/2025 - 07/01/2026] **Exploding Kittens - Simplified (Operating Systems II Project)**

Built a terminal-based 2-player game in C on Linux using a client–server architecture (TCP sockets, ncurses). In a 3-person team, I implemented the core game rules and algorithms (turn flow, card effects, deck/hand management, win/lose conditions) and integrated them with game-state synchronization between clients.

Link: https://github.com/FlaviusMarian27/ExplodingKittens

[10/10/2025 - 16/12/2025] **8086 Microsystem (Microprocessor Design)**

Designed and documented an Intel 8086 minimum-mode microsystem in EasyEDA (ROM/RAM, address demux/decoding with 74LS373/74LS138, 8251 USART and 8255 PPI for keypad/LEDs/7-segment) and wrote x86 Assembly routines for initialization and peripheral control

Link: https://github.com/FlaviusMarian27/Microsistem-cu-microprocesor-8086

[25/04/2025 - Current] **Gym Manager Web Application**

Developed a web-based gym management application using HTML, CSS, and JavaScript. The current version allows administrators to manage clients, subscriptions, and schedules via an interactive interface. The front-end is fully functional and responsive. Backend integration (using Node.js and Express) is currently in development to handle user authentication, data storage, and dynamic content via API connections.

Link: https://flaviusmarian27.github.io/GymManagerWeb/

[05/05/2025 - 11/05/2025] **PC Heaven – Database Administration and Web App using Oracle APEX**

Worked in a team of two to develop a complete Oracle APEX application for managing a custom PC assembly company.

Designed and implemented core database tables (components, clients, orders, order details) and populated them via SQL DML scripts.

Built key APEX pages including:

– Full component listing

– Hierarchical order view per client (via CNP parameter)

– Order history with dynamic filtering

– Statistical reports showing component usage across all orders

This project enhanced my skills in relational database design, SQL, and low-code web development using Oracle APEX.

Link:
https://apex.oracle.com/pls/apex/r/bd_proiect_dragos_flavius/pc-heaven/home?session=111007266038393

[13/04/2025 - 07/05/2025] **SystemC ALU – Modular Arithmetic Logic Unit (Team Project)**

Worked as part of a 4-member team to develop a modular ALU system using SystemC. I was responsible for implementing key components such as the 32-bit ripple carry adder (RCA32), subtractor, MUX8, and ALUX main module. Coordinated integration of individual modules into a unified architecture and ensured proper functionality across all components received from teammates. This project improved my skills in hardware description languages, digital systems design, and collaborative development.

Link: https://github.com/FlaviusMarian27/SystemC-ALU-Modules

[11/01/2025 - Current] **Arduino Projects Portfolio – Embedded Systems and Microcontroller Programming**

Created several small projects using Arduino boards to learn how to connect sensors, control motors, and display data. I worked with components like 7-segment displays, temperature sensors, and real-time clocks. These projects helped me understand how hardware and code work together.

Link: https://github.com/FlaviusMarian27/Arduino

EDUCATION & TRAINING

[18/07/2023 - Current] **Bachelor's Degree in Software Engineering**

Faculty of Automation and Computer Engineering   https://ac.upt.ro/

City: Timișoara | **Country:** Romania | **Level in EQF:** 6

[15/09/2019 - 10/06/2023] **High School Diploma – Mathematics and Computer Science**

Colegiul Național Pedagogic "Regina Maria"   https://infopedadeva.ro/

City: Deva | **Country:** Romania | **Level in EQF:** 4

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING: B1 **READING:** B1 **WRITING:** B1

SPOKEN PRODUCTION: B1 **SPOKEN INTERACTION:** B1

French

LISTENING: A1 **READING:** A1 **WRITING:** A1

SPOKEN PRODUCTION: A1 **SPOKEN INTERACTION:** A1

SKILLS

Hard Skills

C programming | SQL Relational Databases | Computer networks | Web development | Java | Python

Soft Skills

Problem solving | Responsibility | Adaptability | Attention to detail | Perseverance | Teamwork

HOBBIES AND INTERESTS

Logic Games & Strategic Thinking

I enjoy playing chess and solving logic puzzles, which helps me develop concentration, structured thinking, and decision-making under pressure - skills that also translate into programming and debugging.

Sports & Physical Activity

I enjoy playing football and staying physically active, which helps me maintain discipline, focus, and team spirit. Participating in sports keeps me motivated and balanced during intensive academic work.

Automotive Technology & Engineering Curiosity

I'm passionate about cars and vehicle technology. I follow innovations in electric mobility and enjoy learning about how mechanical systems and electronics combine - often drawing parallels to embedded systems work.