

Filip Niculae

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📍 Bucharest, Romania

🔄 github.com/NFI-279

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🔗 nfi-279.github.io/Personal-Portfolio

🚩 Romanian

🧩 Profile

Junior Software Developer and final-year Computer Science student focused on backend engineering and building practical software solutions. Hands-on experience with Java, C++, JavaScript, Docker, and REST APIs through professional internship work and independent technical projects.

🎓 Education and Training

Bachelor of Science in Computer Science,
Faculty of Engineering in Foreign Languages
Program: Computers and Information Technology.

Oct 2023 – Present
Bucharest, Romania

📁 Professional Experience

Software Developer Intern, Diloxy

Jun 2026 – Sep 2026
Bucharest, Romania

- Contributed to full-stack enterprise applications, building user-facing features and optimizing server-side REST APIs utilizing Java, Docker, Gradle, and Git.

📁 Projects

Practice Management Software, Independent Project

Aug 2026 – Present

- Developing a dedicated practice management application tailored for Romanian accounting firms, engineering robust backend utilities to streamline complex workflows and data processing.
- **Tech Stack:** Next.js, NestJS, PostgreSQL, Docker

Food Trailer POS & QR Ordering Ecosystem, Independent Project

- Built a full-stack, waitstaff-free POS and digital ordering system (Next.js, NestJS, Prisma) featuring real-time order tracking, state management, and secure Stripe checkout integration.
- **Tech stack:** NestJS, Next.js, Prisma, PostgreSQL, Stripe API, Tailwind CSS.

Rust Automated Irrigation System, Independent Project

- Engineered a smart irrigation system integrating a C++/DirectX 11 desktop GUI with async Rust firmware on a NUCLEO-F411RE microcontroller, utilizing a custom UART protocol to process live sensor telemetry for automated water control and hardware fail-safes. ☑
- **Tech stack:** Rust, C++, embassy, Dear ImGui, DirectX 11, UART, STM32. ☑

Secure Software Loader & Authentication API, *Independent Project*

- Developed a secure client-server loader application designed to manage software distribution, user sessions, and hardware-bound authentication. [↗](#)
- **Tech stack:** C++, REST APIs [↗](#)

Save Planet Earth (3D Graphics Application), *Academic Team Project*

- Collaborated within a development team to design and implement an interactive 3D graphical application utilizing the OpenGL API. [↗](#)
- **Tech stack:** OpenGL, C++, Git. [↗](#)

 Awards

Finalist, Innovation and Digital Creation Olympiad (Software Section),

Jul 2022

Ministerul Educației Naționale

- Developed SmartLauncher, a C#/.NET desktop application that automates agricultural irrigation by processing real-time sensor telemetry from an ESP8266 microcontroller to dynamically control water pumps and trigger hardware fail-safes. [↗](#)
- **Tech stack:** C#, .NET Framework, Arduino IDE, Hardware Integration (Sensors/Relays), Serial Communication. [↗](#)

 Skills

Programming Languages: JavaScript/TypeScript, Java, C++, Rust, C#

Key Competencies: System Architecture, Secure Authentication, Hardware-Software Integration

Backend & Databases: NestJS, REST APIs, PostgreSQL, Prisma ORM, .NET Framework

Tools & DevOps: Docker, Git, GitHub

 Language Skills

Romanian
Mother tongue

English
• B2

 Driving Licence

Driving Licence: B

 Certificates

- European Computer Driving Licence (ECDL)