



Fer Alexandru Virgil

CURRICULUM VITAE

Automation Engineering student

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An *Automation and Applied Informatics* engineer in training, entering the third year at the Technical University of Cluj-Napoca — control system theory in MATLAB, algorithms and low-level systems as much as software. Has already shipped two production web platforms for external clients, one for a photographer in Bavaria, owning each end-to-end: architecture, security model, deployment and admin tooling. TypeScript with Next.js and React on the front end, NestJS and PostgreSQL on the back; reads around the edges of the field — backend fundamentals, cybersecurity, quantum computing.

EXPERIENCE & PROJECTS

Photographer Portfolio Platform

2025 – 2026

Freelance client · Urban Keller, Germany · urbankeller.de

React, TypeScript, Tailwind CSS, Supabase, Cloudinary, Java

- Built a bilingual (DE/EN) portfolio with an infinitely draggable photo canvas, searchable archive and dark mode; deployed on Vercel.
- Designed a read-only public architecture: images through Cloudinary with whitelisted transformations, metadata in Supabase Postgres behind Row Level Security, zero secrets in the browser.
- Delivered a Java Swing desktop admin tool — batch upload, editable metadata, EXIF-aware compression, least-privilege database access — packaged with jpackage as a self-contained Windows app needing no Java runtime.

Personal Blog Platform

2026

Freelance client · francescaiurian.com

Astro, React, TypeScript, Tailwind CSS, Decap CMS, Netlify

- Built a statically generated, responsive blog with light/dark theming, reading-time estimates and category search, using Astro with React islands for interactivity.
- Integrated a Git-based CMS so a non-technical client publishes and edits articles from a visual admin panel with no code.
- Continuous deployment from GitHub, custom domain, automatic HTTPS; production-ready, launching autumn 2026.

Backend Developer — Polyhack Hackathon

APR 2026

Cluj-Napoca · *NestJS, PostgreSQL*

- Owned backend architecture jointly with one other developer in a five-person agile team.
- Shipped a working system under a 24-hour deadline, integrating the API with the front end in parallel development.

Personal Portfolio

NEXT.JS

feralexandru.com · Portfolio built from scratch in Next.js and TypeScript — no template, no site builder.

Qsym — Quantum Gate Simulator

PYTHON

github.com/Alexfery/Qsym · Desktop simulator visualising single-qubit quantum gates on a 3D Bloch sphere, built with Qiskit.

EDUCATION

B. Automation and Applied Informatics

2024 – 2028

Technical University of Cluj-Napoca · Object-Oriented Programming (C#), Systems Engineering in Programming (Java), Algorithm Design (C) — top grade in all three. Control system theory (MATLAB), databases, computer architecture.

Baccalaureate

2020 – 2024

Colegiul Național „Horea, Cloșca și Crișan”, Alba Iulia

SKILLS

LANGUAGES

TypeScript, JavaScript, Java, Python, C, C++, C#, SQL, MATLAB

FRONTEND

Next.js, React, Astro, Tailwind CSS, HTML, CSS

BACKEND & DATA

NestJS, Node.js, PostgreSQL, Supabase, REST APIs

TOOLS

Git, GitHub, Linux, Vercel, Netlify, Cloudinary, Qiskit

LANGUAGES

English	C1 · B2
German	A2
French	A2
Romanian	native

CERTIFICATIONS

Google Cybersecurity Professional Certificate

Google · Coursera, 2025

Fundamentals of Backend Engineering

Udemy · 19.5 h

Complete Web Development Course

Udemy · 100 h

Metasploit for Beginners: Ethical Penetration Testing

Coursera

INTERESTS

Quantum computing · German and French language & culture

