



ALFRED GABRIEL CIUCA ANDREI

Software Engineer | Full-Stack Developer

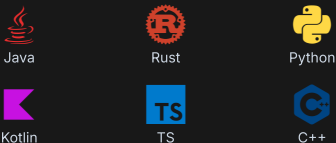
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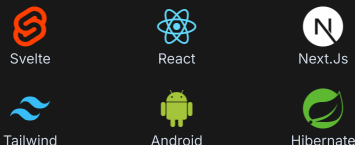
LANGUAGES

ES	Spanish	Native
RO	Romanian	Native
GB	English	Professional
EUS	Basque	Intermediate
IT	Italian	Beginner

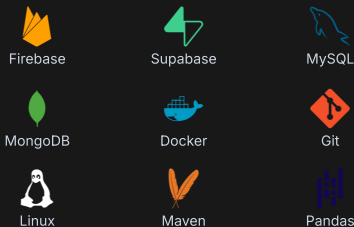
PROGRAMMING LANGUAGES



FRAMEWORKS



DB & DEVOPS



MORE ABOUT ME

You can learn more about me on my online portfolio or on my GitHub:

alfredgabriel.com
 github.com/alfredgabriel

ALFRED GABRIEL CIUCA ANDREI

Software Engineer | Full-Stack Developer

Specialized in Industrial Systems · Computer Vision · Multi-Agent AI

Professional Profile

Software developer specialized at the intersection of industrial hardware, computer vision, and production software. I take a laser machine, an industrial camera, or a UWB sensor and build the software that makes them intelligent: from embedded firmware to the final dashboard. I designed the real-time control software for an industrial laser system, and built from scratch a positioning system fusing UWB and contextual vision with centimetric precision. I master the complete hardware → software → product cycle, end-to-end.

Professional Experience

- Software Developer**
EXOM Engineering
Jun. 2025 – Jun. 2026
Provider of industrial laser solutions, robotics, computer vision, and real-time automation (SdLBS® technology).
 - Designed and developed a cross-platform industrial control application (**Tauri: Rust + Svelte + TailwindCSS**), with a 2D laser designer and low-latency binary communication protocol for embedded hardware.
 - Implemented **real-time computer vision** for analysis with industrial cameras, including synchronized recording and production data processing.
 - Developed **FPGA/GPU**-accelerated firmware/software for machine vision, and rebuilt the corporate website (**SvelteKit + Supabase**).

Rust **Svelte** **Tauri** **Tailwind CSS** **Computer Vision** **FPGA/GPU** **Supabase**

exomengineering.com
- Developer — Early-Stage Startup**
IAKIA
Early-Stage Startup · In Development
Security and logistics system based on computer vision and centimetric precision.
 - Designed the complete system architecture fusing **UWB (<10cm precision)** with contextual vision for real-time tracking.
 - Built the **full stack**: Python (server, WebRTC/RTSP, detection), Next.js/React (dashboard), ESP32 (UWB firmware/sensors).
 - Validated the **functional prototype** in technology fairs, innovation contests, and real tech companies with positive feedback from industry evaluators.

Python **Next.js** **React** **ESP32** **UWB** **Computer Vision** **WebRTC/RTSP**

iakia.eus

Education

- Specialization in Artificial Intelligence and Big Data**
Centro Formación Somorrostro
2026 - 2027
- Higher Degree in Cross-Platform Application Development (DAM)**
Arangoya Bilbao
2024 - 2026
- Bachelor's Degree in Health Sciences**
El Regato Ikastetxea
2022 - 2024

Certifications

- Google AI Professional Certificate**
Google · 2026
Generative AI, prompt engineering, and intelligent agent architectures.
- Google Cybersecurity Professional Certificate**
Google · 2026
Network security, vulnerability analysis, incident response, and SIEM tools.
- Applied Data Science with Python Certificate**
IBM · 2026
Data analysis, visualization, and applied machine learning with Python.
- Building with the Claude API Certificate**
Anthropic · 2026
Application development with Claude API, LLM integration, and prompt design.
- Hugging Face Agents Course**
Hugging Face · 2026
Autonomous AI agents, multi-agent frameworks, and GAIA benchmark evaluations.