

# Alan Geirnaert

## Full-Stack Software Developer

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### Summary

Full-stack developer with a strong foundation in web technologies and a deep interest in science and innovation. Currently completing an MSci in Software Development while building AI-driven apps and contributing to open-source projects. Passionate about using technology for impactful, meaningful work in scientific environments like CERN.

### Education

2024–2026 **MSci. Software Development**, *OpenClassrooms*, Remote, France

Part-time remote degree with full-time internship. Focus on full-stack engineering, cloud architecture, and Agile development.

### Experience

Dec **Full-Stack Software Development**, *App'Ines, Intern*, Remote, France

- 2024–Present
- Built an Angular 19 PWA with JWT-based authentication and role-based admin access
  - Created modular UI components using Ionic and Typescript
  - Developed backend APIs using Express.js and MongoDB

July–Sep **Software Engineering**, *Headstarter AI, Intern*, Remote, USA

- 2024
- Worked on AI projects involving Retrieval-Augmented Generation (RAG)
  - Participated in full-stack feature development with ML integration

### Projects

NeuroVerse **AI-powered productivity engine with custom digital clones**

- Stack: Next.js, TypeScript, Groq, MongoDB, Vercel.

GitPortal **Open-source platform to showcase GitHub projects**

- Uses AI to extract keywords and improve project discovery
- Stack: Next.js, TypeScript, Groq, MongoDB, Vercel.

Cosmic **AI-generated exoplanet lesson platform**

- Classroom
- NASA Space Apps Global Nominee 2024 (Swiss team). Next.js + Django + PostgreSQL.
  - Stack: Next.js, TypeScript, Python, Django, Groq, OpenAI, PostgreSQL, Vercel

### Skills

Languages JavaScript, TypeScript, Python, C++, SQL

Frameworks Angular, React, Next.js, Node.js, Express

Databases MongoDB, PostgreSQL, Prisma

DevOps & Tools Git, Docker, GitHub Actions, Vercel, REST APIs

AI/ML Groq SDK, OpenAI API, LangChain, Vector Databases

Testing Jest, Supertest, Postman

### Scientific Motivation

Strong interest in applying software to advance physics and research. Built science-themed apps and simulations. Active in NASA hackathons. Keen to contribute to CERN's mission of open scientific innovation.