GUILLAUME REINISCH

SOFTWARE ENGINEER

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📍 Montpellier - France

PROFILE

Passionate programmer since age 14, with expertise in scientific computing, system architecture, and full-stack development. I build robust, scalable systems and thrive on challenges, continuous learning, and delivering impactful software.

🌐 Detailed CV: https://w3nest.org/apps/greinisch/latest
🌐 Latest project: https://w3nest.org

EDUCATION

2006 - 2010
BORDEAUX 1 UNIVERSITY

- PhD theoretical physics

2004 - 2006
INSA – ENGINEERING SCHOOL

- Physics

< 2004
GRENOBLE ALPES UNIVERISTY

- Mathematics, Physics

WORK EXPERIENCE

2020 - PRESENT
Startup YouWol (2020-2024); W3Nest (2025-Present)
Full stack architect & Front-end developer

- Designed a local-first cloud like solution for science
- Developed frontends & backends, architected databases
- Deployed a Kubernetes cluster on OVH Cloud for backend services, authentication, and monitoring
- Managed a small technical team

2014 - 2020
SLB
Software designer

- Refactored a 100k-line C++ signal processing library, reducing code by ~90%, improving robustness
- Maintained and developed a C++/Qt desktop application for gas chromatography analysis
- Contributed to a big data web application, visualizing over 1M wellbore data points on map
- Collaborated on ML-based algorithms for 1D signal pattern recognition

2006 - 2014
PhD & PostDoc (Austin TX) & Freelance (NASA Ames)
Researcher / Computational Science

- Research on quantum chemistry, chemical kinetics, & thermodynamics . Developed scientific libraries.

HARD SKILLS

- Object-Oriented/Functional/ Reactive programming
- TypeScript, Python, C++
- Docker, Helm, Kubernetes
- ScyllaDB, ElasticSearch, Keycloak, Grafana
- Scientific stack
- Qt, FastAPI, Angular, OpenAPI, RxJS

SOFT SKILLS

- Teamwork
- Critical Thinking
- Communication
- Innovation & Creativity

LANGUAGES

- French (native)
- English (fluent)