

# Adrien FAURE

*PhD in computer science*

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## Professional Experience

2021–2023 **Python Developer – Distributed Software – Linux, LIG, Grenoble, France**

- Two contracts: ANR Energumen (2021–2022), European project REGALE (2022–present)
  - Implementation of complex theoretical (and/or academic) features in a real-world system
  - Integration of software from other participating laboratories
  - Collaboration with other teams in France and internationally
  - Development and design of auxiliary tools for the project
  - Benchmarking and performance improvement
- Primary developer on OAR3, a resource manager for computing clusters
  - A complex project due to its distributed nature
  - Implementation of features, support for users, maintaining CI and code quality
  - Utilized technologies: Python, Linux, Postgresql, Docker, Nix, Perl
- Mediation regarding OAR3 to facilitate international collaboration
  - Writing documentation (for users, developers and system administrators)
    - Best practices, user guides, getting started, etc.
    - Documentation of the reference API
    - Schemas and explanatory diagrams (used in various presentations by peers as explanatory aids)
  - Creating tutorials and presentations to introduce OAR3
- Integration of different software components from the REGALE project stakeholders

Since 2022 **Freelance Developer, Grenoble (Remote), France**

- **2022, Aktid, Development of a dashboard for AI algorithms**
  - Architectural design: backend, prediction module, database schema, REST API, frontend, etc.
  - Backend development - implementing state-of-the-art machine learning algorithms, database, and REST API (using FastAPI)
  - Frontend development - React in TypeScript for the dashboard, websocket, poll pattern, online visualization with Rechart
  - Deployment of the application on-site, using Docker Compose for both backend and frontend
  - Presentation and training of Aktid collaborators for project handover

Since 2017 **Teaching - Bachelor's and Master's Programs, UGA, Grenoble, France**

- Software Vulnerabilities in 3rd-year IUT - Module Coordinator ( 24 hours, 2022 - 2023)
- Software Quality in 3rd-year IUT - Module Coordinator ( 28 hours, 2022 - 2023)
- DevOps: Methods and Tools in M1 INFO - Lab and Tutorial Leader ( 18 hours, 2022)
- Algorithm Validation and Statistical Models, L3 MIAGE - Lab Leader (17 hours in 2019)
- Algorithms and Modeling, L3 INFO - Lab Leader ( 45 hours, from 2017 to 2019)

- 2017–2020 (3 years) **Ph.D. in Industrial Research (CIFRE)**, *Atos – UGA*, Grenoble, France
- Thesis Topic: Advanced Simulation for Supercomputer Resource Management
  - Focused on experimentation methodologies for large scale clusters
    - Simulation, and real scale experimentation
    - Reproducible distributed experiments
  - Utilized Tools: Python, Bash, Nix, C, C++, R, Rust, Spark, Linux

## Education

- 2017–2020 **Ph.D. in Computer Science**, *Université Grenoble Alpes – Atos*, Grenoble, France
- 2015–2016 **Master's in Computer Science - Specialization in Software Engineering**, *Joseph Fourier University*, Grenoble, France
- 2014–2015 **Master's in Computer Science**, *Claude Bernard Lyon 1 University*
- 2011–2014 **Bachelor's in Mathematics and Computer Science**, *Claude Bernard Lyon 1 University*

## Skills

- Languages C, C++, Python, Rust, Bash, R, JavaScript, Java, Nix
- Technical Skills Linux, Git, Docker, Nix, Databases, Distributed Computing, High-Performance Computing, Parallel Programming, Data Analysis
- Soft Skills Scientific Mediation (paper writing, presentations, tutorials), Teaching
- Languages French (native), English (professional)

## Hobbies

- Sport Running, Biking, Climbing and Cross Training.
- Reading I'm an avid reader of novels, manga, and comics, I like science fiction and fantasy.
- Drawing I'm also passionate about drawing and painting.
- Programming Programming is one of my favorite hobbies. I like experimenting with new languages and technologies and developing personal projects to improve my skills.