



## Évrard VAN ESPEN

Devops and Full-stack Developer, clean code, high performance

Experienced *full stack* and *devops* developer with several years of experience in *startups*. My skills range from prototyping and architecture design to full development and operational production, including meeting management and creating both technical and user documentation. Proficient in *front-end* and *back-end* development, as well as *Linux* system administration, from a few machines to dozens.

### Contact

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### Personal Information

Nationality: French

Location: Clermont-Ferrand (remote or hybrid)

Languages: French (native), English (fluent)

### Skills

- Python, Pandas, Dart, JavaScript, Rust, Go, Elixir
- Flutter, Svelte, VueJS, Figma, LaTeX
- Linux systems, PostgreSQL, Ceph, Docker, Kubernetes, monitoring (Grafana, Prometheus), automation (Ansible)
- Gitlab CI
- Sensitive to cybersecurity issues
- Autonomy, project understanding, initiative, creativity

### Personal Projects

- Maintaining a *homelab* to test new technologies;
- Developing projects to stay up-to-date with technologies and experiment with languages.

### Interests

Photography, cinema, nature, motorcycles, leatherwork.

## Experiences

### SOFTWARE ENGINEER, DEVOPS

Arke, Clermont-Ferrand

IT consulting and development company. Typical clients include large corporations, project leaders, and startups.

October 2023 - July 2025 (1 year and 9 months)

- **Multi-platform application development:** Developing complete mobile applications (prototypes, development, testing) intended to be presented as proofs of concept (POCs) to investors for fundraising. These POCs validated technical feasibility and project attractiveness for stakeholders;
- **System administration and architecture:** Administering and maintaining machines, configuring environments, and automating routine tasks;
- **Rust development:** Integrating components into a Rust API;
- **Product Owner:** Close collaboration with clients to design intuitive and impactful interfaces, validated prior to investor presentations, leading design meetings to define specifications and validate deliverables;
- **Product design:** Participating in the design of a physical product, actively contributing to research and development of technical requirements.

**Key skills:** Flutter, Figma, Dart, Rust, Ansible, Gitlab CI, Docker, autonomy, communication

### PYTHON DEVOPS (FREELANCE)

Michelin, Clermont-Ferrand

April 2023 - October 2023 (6 months)

- Providing technical support to Python development teams;
- Developing tools for developers;
- Creating Docker images and Gitlab CI pipelines for Python and C++ teams;
- Working in an agile methodology.

**Key skills:** Python, Docker, Gitlab CI, Artifactory

### STAND-IN VIRTUALIZATION TEACHER

IUT informatique, Clermont-Ferrand

May 2024 - June 2024 / May 2025 - June 2025

Designing and teaching a complete module on virtualization and containerization technologies, covering Proxmox and Kubernetes. Conducting lectures, practical sessions, and final student evaluations.

**Key skills:** Kubernetes, Docker, Proxmox, pedagogy

## **SOFTWARE ENGINEER, DEVOPS**

**Weather Measures**, Clermont-Ferrand

September 2018 - December 2022 (4 years and 3 months)

Company specializing in the production and supply of high-quality, high-resolution meteorological data, operating in the *big data* sector.  
Clients include major corporations.

- **Design of scalable data architectures:** I developed solutions in **Python** and **Pandas** to process and analyze massive volumes of meteorological data in real time, enabling major clients to make faster and more accurate operational decisions;
- **Development of visualization tools and pipeline management:** Creating interfaces in **VueJS** and **Svelte** to manage processing pipelines and visualize complex data, providing teams with better visibility and significant productivity gains;
- **Automation and industrialization of infrastructures:** Using **Python scripts** and **Ansible playbooks**, I automated server deployment, configuration, and maintenance, reducing intervention times by **30%** and eliminating the risk of manual errors, resulting in a more reliable and cost-effective infrastructure;
- **Proactive monitoring and incident resolution:** I deployed a **Prometheus/Grafana stack** to monitor performance and anomalies in real time, enabling proactive problem detection and ensuring optimal service availability for end users;
- **High-availability cluster management:** Administering a **Proxmox** cluster (virtualization) and a **Ceph** cluster (distributed storage), ensuring **99.9% availability** and secure management of **500 TB of data**, with daily ingestion of several TB;
- **Data security and resilience:** Implementing **software RAID** (*mdadm*), automated backups, and restoration tests, along with regular security audits, to protect sensitive data and ensure business continuity, even in the event of an incident;
- **Infrastructure security:** Strengthening system security (SSH access management, firewall, encryption) and applying best practices to minimize risks and comply with regulatory requirements, providing peace of mind for clients and teams.

**Key skills:** Python, Pandas, FastAPI, VueJS, Svelte, Linux systems, Ceph, Prometheus, Grafana, Ansible, Proxmox, Kubernetes, Docker

## **Personal Projects**

### **HIGH-PERFORMANCE ONLINE PHOTO GALLERY**

Online photo gallery designed to host my photography work, with 2000+ high-resolution photos, featuring high-performance *front-end* display and *API* responses. This application includes features for processing image metadata, generating thumbnails, and an administration interface.

I created several implementations to test new languages and stay up-to-date:

- **Microservices implementation, Nats, Python, Rust, Go:** Implementation using microservices developed in **Python** with **FastAPI**, **Rust**, and **Go**, communicating via the **Nats** messaging system;
- **Go implementation:** Monolithic implementation using the **Go** language with the **Gin** library to create the *API*, using **Apache Parquet** for the database;
- **Elixir implementation:** Monolithic implementation using the **Elixir** language with the **Phoenix** library to create the *API*;
- **SvelteKit implementation:** Full-stack implementation using the **SvelteKit** framework, with **Postgresql** for the database.

**Key skills:** Python, FastAPI, VueJS, Svelte, Rust, Go, Elixir, Apache Parquet, Nats, Jetstream

### **HOMELAB**

Maintaining a *homelab* to test tool deployment and system administration. The *homelab* consists of a powerful machine hosting a **Proxmox** server with a **Kubernetes** cluster installed. Monitoring is performed using the **Prometheus/Grafana** stack. Continuous integration is set up using **Gitlab CI**. **Key skills:** Linux systems, Kubernetes, Docker, Proxmox, Grafana, Prometheus, Gitlab + CI

## **Education**

### **PROFESSIONAL DEGREE IN COMPUTER SCIENCE**

IUT informatique de Clermont-Ferrand

2018