


# Florent Vaucher

## DevOps Engineer

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### Summary

Multi-disciplinary Engineer with a strong background in software development and the orchestration of complex data lifecycles. I specialize in building robust integration layers that bridge the gap between diverse data sources, from edge sensors to cloud infrastructure, ensuring seamless interoperability between services. With a focus on system reliability and data integrity, I have a proven track record of designing modular architectures that facilitate efficient data movement and transformation.

I thrive in Agile environments where I can proactively optimize existing systems to improve performance and scalability. My experience managing end-to-end MLOps platforms has provided me with deep expertise in data processing and validation—skills directly applicable to the generation and management of high-fidelity synthetic datasets. I am committed to delivering stable, well-documented solutions that address the specific needs of cross-functional project teams.

### Skills

#### Programming

Go  
SQL  
bash  
Rust  
Python  
typescript

●●●●○ Git  
●●●●○ IaC  
●●●●○ Cloud  
●●●●○ CI/CD  
●●●●● Containers  
●●●●○ Monitoring

#### Tools

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### Soft Skills

- **Collaborative Mindset** Adept at bridging requirements and technical execution across teams; delivering cohesive interfaces and integrated systems that satisfy stakeholders.
- **Ownership & Autonomy** Proven ability to independently lead the lifecycle of internal tools and infrastructure; taking full accountability from initial design to production support.
- **Critical Thinking** Naturally inclined to identify bottlenecks; proactive in proposing and implementing optimizations that enhance system stability and scalability.
- **Technical Stewardship** Committed to maintainability through clear documentation and guidance; ensuring accessible, reproducible, and standard-aligned system decisions.

### Languages

- **French** native
- **English** C2

### Professional Experience

#### DevOps Lead

📅 Jul 2024 – Present

*WasteFlow*

📍 Lausanne

- **Strategic Leadership** Led the transition from Waterfall to Agile methodology; designed core systems and defined the tech stack, balancing technical trade-offs for long-term scalability.
- **Infrastructure** Architected secure, scalable cloud environments and CI/CD processes, reducing device provisioning from days to minutes and release cycles from months to weeks.
- **Data Management** Engineered high-performance data pipelines and optimized database management systems, increasing data processing efficiency by 500% and reliability by 200%.
- **Reliability & Observability** Optimized system uptime via comprehensive monitoring, logging, and alerting; integrated automated testing and recovery to reduce downtime by 300%.
- **Developer Experience & Tooling** Standardized documentation and internal tooling to empower development teams, streamlining the full software delivery lifecycle.

#### Intern in AI

📅 April 2024 – June 2024

*Innovatim Sarl*

📍 Neuchâtel

- **AI Infrastructure & RAG** Architected a custom AI assistant with RAG capabilities; engineered the cloud-native deployment of LLMs and vector databases on GPU-optimized infrastructure to support high-concurrency, low-latency workloads.
- **Fullstack Development** Designed and implemented high-performance API backends and modern frontends, ensuring seamless end-to-end integration across the entire stack.

#### Software Engineer Intern

📅 May 2023 – November 2023

*MeteoSwiss*

📍 Geneva

- **Cloud-Native Modernization & CI/CD** Transformed legacy tools into containerized Python APIs and configured CI/CD pipelines to ensure seamless delivery across cloud environments.
- **Weather Data Engineering** Architected automated pipelines for aggregating and transforming complex weather data into dynamic reports, tables, and geospatial maps.

### Projects

#### End-to-End ML Data Lifecycle Platform

Designed and implemented a modular ML data lifecycle pipeline using asynchronous processing and multithreading; implemented sharding and chunking strategies to optimize S3 data flow from ingestion to model deployment. Delivering data reliably and increasing data transfer speed by 700%.

*Python, Redis Queue, MLFlow, Zarr, numpy, AWS, S3, Terraform, Docker*

#### Cross Platform Event-driven Alerting System

Engineered a high-availability, pub/sub-based alerting engine to process real-time operational data from edge devices; architected a target-agnostic pipeline that triggers both multi-channel notifications and automated hardware actuators for immediate incident response.

*Go, Python, Typescript, SQL, MQTT, gRPC, AWS, Docker, Terraform*

#### Unified Monitoring & Observability Platform

Architected a distributed telemetry pipeline using node\_exporter and Fluentd to collect and enrich edge device data; orchestrated data routing via Grafana Alloy to Grafana Cloud, implementing automated alerting logic to redirect critical incidents to designated response channels.

*Grafana, Prometheus, Loki, Alloy, Fluentd, Ansible, gRPC, OpenToFu, Docker*

### Education

#### BSc (Hons) Computer Science (Data Science)

📅 2019–2022

*University of London*

📍 London, UK

- First Class Honours
- Agile Software Development
- Software Design and Development
- Algorithms and Data Structures I & II