

# Romain Berton

Software Engineer (Backend / Distributed Systems)

Remote · EU citizen · Currently based in Thailand

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## Summary

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Software engineer with 10+ years of experience designing, building, and operating data-intensive backend and distributed systems in production environments.

## Skills

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**Languages:** Python, JavaScript

**Backend & APIs:** Django, REST APIs, data ingestion pipelines

**Data & Storage:** PostgreSQL, Redis, large-scale data migrations

**Infra & DevOps:** Docker, Kubernetes, CI/CD (GitHub Actions), AWS, bare-metal deployments

**Observability & Reliability:** Prometheus, Grafana, alerting and monitoring

**Data Streaming:** Kafka, Debezium

**Testing & Quality:** Automated testing, test frameworks, CI validation

**Other:** Linux, Jira, VSCode

## Experience

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### Canold, remote — Full Stack Software Engineer

October 2021 – Present

- Led large-scale MySQL/PostgreSQL migrations involving millions of records with minimal downtime, and implemented partial database replication using custom Debezium connectors to support downstream analytics
- Designed and owned backend architectures for multiple data ingestion and reporting services, including external API integrations and live data pipelines used by 50+ clients
- Took end-to-end ownership of backend services from design and implementation through containerization, deployment to Kubernetes, and production monitoring
- Built and operated CI/CD pipelines for Dockerized applications, automating build, deployment, and operational workflows to improve reliability and reduce manual intervention
- Improved system reliability and data correctness by implementing monitoring, alerting, operational runbooks, and reconciliation scripts to detect and resolve data drift across replicated datasets

### Assumption School, Thailand — Maths & Science Teacher

June 2020 – October 2021

- Taught mathematics and science to high school students in English
- Acted as homeroom teacher, coordinating academic and pastoral responsibilities
- Delivered intensive English camps and private tutoring

### Asia Outdoors + Langurs Adventures, Vietnam — Outdoors guide

June 2019 – June 2020

- Led climbing, kayaking, and hiking expeditions in Ha Long Bay
- Responsible for client safety, route planning, and risk assessment
- Managed groups in dynamic outdoor conditions

## Sopra Steria, France — Backend Software Engineer

June 2015 – February 2018

- Java backend software engineer working on systems for the French healthcare sector
- Progressed to increased responsibility across multiple projects in agile teams

## Selected Project

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### Personal Productivity & Habit Tracking Platform ([romain.it.com](http://romain.it.com))

Independently developed, production-deployed side project

- Designed and developed a full-stack web application to track workouts, journaling, tasks, and personal metrics
- Built backend services with Django and a React frontend, focusing on maintainability and extensibility
- Containerized and deployed the application using Docker on a managed cloud platform

**Technologies:** Django, React, PostgreSQL, Docker

## Education

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### Ecole des Mines d'Albi Carmaux, France

2015

Engineer's Degree (Master level), Information Systems and Computer Engineering

## Interests

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Rock climbing, game modding, chess

## Languages

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- English (Fluent, primary working language)
- French (Native)
- Spanish (Advanced)
- Japanese (Intermediate)
- Thai (Intermediate)