

Romain Berton

Software Engineer (Backend / Distributed Systems)

Remote · EU citizen · Currently based in Thailand

github.com/rberton81 | contact@romain.it.com | romain.it.com

Summary

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

Skills

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

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

Personal Productivity & Habit Tracking Platform (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

Ecole des Mines d'Albi Carmaux, France

2015

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

Interests

Rock climbing, game modding, chess

Languages

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