

Elias Tourneux

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Experience

Software / Machine Learning Engineer

OVHcloud — AI Solutions Team

Montréal, Canada

Sept 2025 – present

OVHcloud is Europe's leading cloud provider.

- Developed core infrastructure for the **AI Endpoints** inference platform, supporting LLMs (Mistral, Llama, Qwen, DeepSeek, gpt-oss), embeddings, image generation, and speech models.
- Implemented **batch inference pipelines** for enterprise workloads, enabling large-scale asynchronous model execution and improving overall platform throughput.
- Led development of **open-source SDKs and provider integrations**, collaborating with ecosystem partners including Hugging Face, Vercel, Pydantic and OpenRouter.
- Wrote technical documentation and blog posts. Supported customers integrating with the inference platform.

Software Engineer Apprentice

SNCF Connect & Tech (tech subsidiary of French National Railways)

Paris, France

July 2023 – Aug 2025

- Worked on **SNCF Connect** (2.5M+ daily users), contributing to travel features including real-time schedules, delays, and ticketing services and on SIBR (France South Region transit app) in the Sales & Catalog scope.
- Designed and implemented **Android home screen widgets** displaying live train schedules and delays, used by **70,000+ daily users**.
- Developed a **Flutter plugin** bridging native iOS and Android APIs with cross-platform Flutter code.
- Built an **Apple Vision Pro prototype application** to be used in high-speed TGV INOUI trains exploring spatial computing use cases for passenger information.

Software Engineering Consultant

SNCF Voyageurs

Remote, France

Feb 2024 – July 2024

- Built a maintenance planning tool for SNCF's national wagon fleet, streamlining scheduling for operations teams.

Projects

Bug Bounty Programs

Security Vulnerability Research

- Discovered a critical severity vulnerability (CVSS 9.8/10) on Etihad Airways; coordinated disclosure with the French National Agency for Information Systems Security (ANSSI).
- Reported vulnerabilities to SNCF, FrenchBee, Burger King, McDonald's, and Uber Eats via YesWeHack and Yogosha.

Mijo — www.mijo.food

July 2025

AI-powered mobile app that extracts structured recipes from social media videos

- Built a mobile application that converts **Instagram Reels and TikTok videos into structured recipes using AI extraction pipelines**.
- Selected for the **AWS Activate Founders program**.

Education

Leonard de Vinci Engineering School (ESILV)

Master of Engineering in Engineering — Cloud Computing and Cybersecurity

Paris, France

Sept 2020 – July 2025

- **Coursework:** Cloud Computing, Cybersecurity, Penetration Testing, Network Security, Cryptography, Web & Mobile Development, Data Science, Machine Learning, AI, DevOps.

Hanyang University (Exchange Semester)

in Computer Science

Seoul, South Korea

Aug 2022 – Jan 2023

- **Coursework:** Artificial Intelligence, Computer Networks, Numerical Analysis, Information Systems, OOP (C++)

Skills

Languages: Python, Kotlin, Dart, JavaScript/TypeScript, Rust, Java, C++, C#, SQL

Frameworks & Mobile: Flutter, React/Next.js, SvelteKit, Jetpack Compose/Glance, SwiftUI

Cloud & Infrastructure: AWS (Lambda, DynamoDB, S3, Amplify), OVHcloud, Docker, Kubernetes, Helm, Grafana, Datadog

AI / ML: LLM inference, batch processing, multimodal model integration, embeddings, Claude Code, LangGraph / LangChain, RAG, MCP, JAX

Security: Penetration Testing, Bug Bounty, Burp Suite, OWASP ZAP, mitmproxy

Tools: Git, Jira, Confluence, Postman