

François Quellec



Data Scientist

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French (native) • English (Professional)

Skills

Software Engineering	AI & LLMs	Data Science
✓ Python	✓ OpenAI / Anthropic / Mistral Integration	✓ Pandas / NumPy
✓ FastAPI / Django / Node.js	✓ Prompt Engineering	✓ scikit-learn / Keras
✓ Vue.js / TypeScript / D3.js	✓ Tool Calling / Agents (Langchain)	✓ Network Analysis (networkx)
✓ PostgreSQL / MongoDB	✓ Vector Databases (Weaviate)	✓ Data Cleaning & Structuring
✓ Docker / Git / CI/CD	✓ Retrieval-Augmented Generation (RAG)	✓ Data Visualization (Plotly / Kepler.gl)

Work Experience

Hestia.ai

Lausanne, Switzerland
Sept. 2021 - Present

Full Stack & AI Engineer

- * **LLM Integration Platform:** Designed and led the development of a modular, agentic web application integrating multiple LLM providers (OpenAI, Anthropic, Mistral). Architected scalable backend APIs using Python, FastAPI, and LangChain to enable advanced workflows including tool calling, knowledge base orchestration, and prompt chaining. Implemented robust credit consumption tracking and retrieval-augmented generation (RAG) capabilities across all integrated models.
- * **Gig Worker Compensation Engine:** Developed a generic pipeline in Python for analyzing platform worker (e.g., Uber Eats, Deliveroo) activity logs. Automated the computation of overtime, distance-based pay, paid leave, and unjust termination claims. Output included court-ready Word and Excel documents to support labor law cases.
- * **AI Automation Solutions:** Built and deployed reusable AI components for enterprise automation, including document classification, summarization, and redaction systems. Delivered client-facing solutions such as legal assistant chatbots, automated newsletter generators, and conversational workflow tools. Leveraged FastAPI, Vector Databases, and Azure OpenAI to create scalable, production-ready applications.
- * **Data Visualization Platform:** Built a privacy-first personal data visualization app using Vue.js, D3.js, and Kepler.gl, empowering users to explore data extracted from platforms like Uber, Instagram, and Twitter. Developed parsers and generic declarative data pipeline for importing, cleaning, and visualizing data stories around personal data.
- * **DevOps & Infrastructure:** Deployed and maintained internal services on Azure Kubernetes, implemented CI/CD pipelines with GitHub Actions, and managed secrets/configuration for multitenant environments.

Heidi.news

Chêne-Bourg, Switzerland
Feb. 2021 - Aug. 2021

Data Science & Visualization Intern

- * Developed React-based analytics platform for social media analysis.
- * Automated climate change visualizations for reporting.
- * Produced interactive data stories integrating journalism and data science.

EPFL — Distributed Information Systems Lab

Ecublens, Switzerland
Jun. 2020 - Aug. 2020

Research Assistant

- * Researched social media polarization and media monitoring.
- * Applied NLP on Twitter for debate analysis and content classification.

Education

EPFL — École Polytechnique Fédérale de Lausanne

Master in Computer Science and Engineering

Minor in Data Science (180 ECTS)

Lausanne, Switzerland

Sept. 2018 - Sept. 2021

HEIG-VD — Haute École d'Ingénierie et de Gestion du Canton de Vaud

Bachelor in Computer Science and Engineering

Minor in Software Engineering (180 ECTS)

Sept. 2015 - Sept. 2018

Yverdon-les-Bains, Switzerland

Other Projects

Topics Classification and Recommendation System

- * Developed a content recommendation system using sentence embedding similarity.

EPFL

Sept. 2020 - Jan. 2021

Twitter Debate Analysis Platform

- * Created a visualization tool using networkx and Twitter API.
- * Implemented discourse polarization detection algorithms.

EPFL

Feb. 2020 - Jun. 2020

Covid-19 Infodemic Visualization

- * Designed interactive visualization about Covid-19 misinformation.
- * [Read the article](#)

EPFL & LeTemps.ch

Feb. 2020 - Jun. 2020