

CÉDRIC ULRICH KESSAHOU

Applied Machine Learning Engineer | Data & AI Solutions | Bilingual FR/EN

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French (native) · English (professional) · Chinese (HSK 4) | Open work permit — no sponsorship required

PROFILE

Computer Science graduate (Data Science & BI, UQAC 2026) who builds data and AI solutions end to end, from a problem spotted on the floor to a model in production. I've shipped a document-extraction pipeline on a fine-tuned Qwen vision model, an LLM-powered data assistant and an ML matching engine (Python, PyTorch, Docker), and I work just as comfortably with the people who use them.

SKILLS

Machine Learning & AI: supervised & unsupervised learning, deep learning (TensorFlow/PyTorch), computer vision, OCR, LLMs & generative AI, vision-language model fine-tuning (Qwen), tool calling / MCP, recommendation & matching systems, model training & deployment

Data engineering & analytics: Python (Pandas, NumPy), SQL, PostgreSQL/MySQL, Supabase, ETL & data pipelines, Power BI, R, statistics

MLOps & software: Docker, CI/CD, GitHub Actions, VPS & Coolify deployment, Ollama (local LLMs), REST APIs, TypeScript/JavaScript, React/Vite, C++, Git/GitHub

PROJECTS

Parcel Vision — Creator · [demo video: cedrickessahou.com/en/projects/parcel-vision](https://cedrickessahou.com/en/projects/parcel-vision) 2025 – 2026

- Problem spotted on the floor: 3 agents were manually keying in data for ~300 parcels a day.
- Fine-tuned a Qwen vision-language model and deployed a pipeline around it: the agent photographs a parcel and the model extracts name, address, postal code, weight and dimensions into the tables subcontractors require.
- Cut daily keying time from ~3 h to ~20 min (~89%), eliminated transcription errors, and trained the agents on the tool. Stack: Python, fine-tuned Qwen vision-language model, Docker, VPS deployment.

Habita — Founder & Product/AI Lead · monhabita.com 2026 – Present

Smart rental-matching startup pairing compatible roommates and connecting landlords with tenants.

- Designed and built the ML matching engine end to end: roommate-compatibility scoring and listing/candidate pairing.
- Ran market research with 110+ respondents, turned the findings into product requirements, and lead a team of 6.

Mini Data Science Assistant — Creator 2026

- Agentic CSV-analysis assistant: ask in plain English or by voice; a local LLM plans, chains tools and explains the result.
- Built an MCP server of 7 data tools and a multi-step agent loop; results pass between tools through in-session dataset handles, so the model never sees raw rows. Runs fully locally: Ollama + Gemma, FastMCP, Pandas, Whisper, Gradio.
- Code: github.com/Cedric0518/mini-data-science-assistant

WeSpeak — Creator · trywespeak.com 2025 – Present

- English vocabulary-learning web app (React, Vite, TypeScript, Supabase/PostgreSQL): designed the SQL schema and an SM-2 spaced-repetition engine.
- Built a scheduled GitHub Actions pipeline that enriches the vocabulary data with LLMs; self-hosted with Coolify and CI.

EXPERIENCE

Logistics Coordination & Customer Service — FedEx 2024 – Present

Chicoutimi, QC & Toronto, ON

- Built shift schedules and dispatched a team of ~18 handlers processing 2,500–3,000 parcels a day.
- Owned follow-up on exception parcels with customers, subcontractors and vendors: diagnosed the issue, communicated the resolution, and closed the loop.

Teaching Assistant, Programming Fundamentals (C++) — UQAC Fall 2024

- Ran C++ lab sessions, tutored students one-on-one, and contributed to project evaluation.

Production Operator — Scepter Aluminium, Chicoutimi (alongside full-time studies) Jul 2025 – Apr 2026

Executive Assistant to the General Manager — CAAM BTP, Cotonou (Benin) 2020 – 2022

- Managed subcontractor contracts, payroll and bookkeeping, and coordinated management with external partners.

EDUCATION

Bachelor of Computer Science, Data Science & BI — UQAC (Université du Québec à Chicoutimi) April 2026

Professional Bachelor's, Chinese Language (Translator-Interpreter) — Confucius Institute / UAC, Benin