

LUDOVIC DUMAS

Full-stack software engineer with 5+ years of professional experience building product interfaces, AI-powered systems and developer tooling. I work end to end, from architecture and API design to automated testing, containerized deployment and production operation.

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France · Open to relocation in Europe

PROFESSIONAL EXPERIENCE

Freelance Full-Stack & AI Engineer

2020 — Present

LeLab.dev · Client projects · France / remote

- Editorial & monitoring platform (production): built workflows from Telegram text and voice through speech-to-text, AI-assisted drafting, review, scheduling and publishing.
- Integrated Windmill for email collection, with APIs and web scraping supplying additional monitoring sources; implemented Jev classification and relevance scoring plus the review dashboard.
- AI telephone & booking platform (in development): designing multi-tenant workflows combining speech recognition, conversational AI, speech synthesis, calendar availability and booking.
- Construction workforce management (production): built GPS-validated time tracking with site-radius controls, distinct worker, foreman and administrator flows, daily reporting, role-based permissions and S3 photo uploads.
- Further client work: real-estate valuation, referral workflows, energy-label quoting and a video training platform with access controls and S3 media.

Frontend / Full-Stack Developer

2022 — 2023

Hexoskin · Montréal · Biomedical technology

- Developed Angular/TypeScript biofeedback interfaces handling sensitive physiological data within medical-device quality and verification requirements, in the context of FDA regulatory readiness.
- Integrated Django REST APIs, wrote unit and API tests, and implemented targeted Python backend fixes.

OPEN-SOURCE ENGINEERING

SVForge

GitHub ↗

SvelteKit/Svelte 5 developer toolkit extending the official Svelte CLI with reusable project templates, optional add-ons, design-system checks and guidance for developers and coding agents; published npm packages.

rag-ferrite

GitHub ↗

Lightweight, self-hosted document indexing and search tool built in Rust: SQLite FTS5 text indexing, sqlite-vec vector search and reciprocal rank fusion, with PDF/Markdown ingestion and MCP, REST and CLI access.

EARLIER TECHNICAL EXPERIENCE

Multi-GPU Infrastructure Technician

2017 — 2018

Saint-Sauveur, Québec · Multi-GPU computing infrastructure — Installed, monitored and troubleshooted multi-GPU systems, including hardware, cooling and performance monitoring.

IT & Electronics Technician

2013 — 2017

Thought Technology · Montréal — Maintained production Windows workstations; assembled, calibrated and tested biomedical and EEG equipment.

Telecommunications & Network Technician

2006 — 2009

French Air Force — Operated and maintained telecommunications and network systems, including routine technical troubleshooting.

TECHNICAL SKILLS

Engineering

TypeScript · JavaScript · Svelte 5 · SvelteKit · Angular · Node.js · PostgreSQL · SQL · API design · Authentication · RBAC

AI systems

LLM integration · AI agents · Prompt engineering · RAG · MCP · STT / TTS · Windmill · Jev · Scraping · Scoring

Infrastructure & quality

Linux · Docker / Compose · CI / CD · Cloudflare · Playwright · Vitest · Unit & API testing · Dokploy · NixOS

Additional

Python · Coding-agent orchestration · LLM evaluations · Rust (project exposure)

EDUCATION

Web Developer Diploma

OpenClassrooms · RNCP Level 5 · 2021

Harvard CS50

2019

Electronics Diploma

2003

LANGUAGES

French	Native
English	Fluent
German	Learning

CURRENTLY STUDYING

Hack The Box Academy
Web & application security