

Pierre Roy

Full-Stack & AI Developer

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Profile

Full-stack & AI developer with a Master's in AI & Data Science from Ynov (2026). Work-study lead developer at **Link2Brain** (2025-2026), an AI SaaS that creates social media content, live with paying clients: LLM and RAG agents in Python, FastAPI, a Vue/Nuxt front-end and Docker deployments. Maintainer of **Kore**, an open source Kotlin library (150+ stars). Looking for a full-time full-stack & AI developer role.

Skills

Languages	Python, TypeScript, Kotlin, SQL, Go, PHP, C++, C#, GDScript
AI & Data	LLMs (OpenAI, Gemini), agents, RAG, LlamaIndex, PyTorch, scikit-learn, pandas, NumPy, computer vision, NLP, reinforcement learning, MLflow, ONNX, ETL (Prefect, dbt, Airbyte)
Web	SvelteKit (Svelte 5), Vue, Nuxt, Astro, Tailwind CSS, FastAPI, Bun, Node.js, REST APIs, WordPress
Data & DevOps	PostgreSQL (pgvector), MariaDB, Supabase, Redis, SQLite, Docker, Dokploy, GitHub Actions, Cloudflare Workers, Playwright, Gradle, Git, Linux

Experience

Lead Full-Stack & AI Developer (work-study) - Link2Brain 09/2025 - 09/2026

AI-generated social media content SaaS | Marseille

- AI agents in Python (RAG, OpenAI and Gemini models) generating the text, images and videos of each post.
- FastAPI API, MariaDB database and LinkedIn, Instagram, Facebook, TikTok, YouTube, X and Pinterest integrations.
- Vue/Nuxt front-end in TypeScript, Stripe payments, Playwright end-to-end tests.
- Technical lead: architecture, code reviews, GitHub Projects, Docker, Dokploy deployments and CI.

Full-Stack Developer (work-study) - Eliophot 09/2023 - 09/2025

360° marketing agency, hospitality and premium lifestyle brands | Aix-en-Provence

- Custom and e-commerce websites in Svelte, Astro and Tailwind CSS, from mockup to production.
- Custom WordPress plugins and themes in PHP (Advanced Custom Fields) for client back-offices.
- Deployments with Dokploy and Rundeck, months-long projects with other departments, technology watch.

AI R&D Intern - Ynov Campus Summer 2023

ScriptGraf project | Aix-en-Provence

- Research on autonomous LLM agents, built the post-writing prototype that became the Link2Brain product.

Projects

Kore | Kotlin, DSL, Gradle, KSP, Maven Central, since 2022 kore.ayfri.com

Open source library generating Minecraft datapacks from type-safe Kotlin, **150+ stars and 200+ releases**, with a Gradle plugin, KSP processor, documentation site, AI agent skills and outside contributors.

Atom Clicker | SvelteKit, Svelte 5, TypeScript, Supabase, Cloudflare Workers atom-clicker.ayfri.com

Browser incremental game played by **1,000+ players**, Canvas rendering, accounts and a global leaderboard.

PokéCards-Collector | SvelteKit, Supabase, PostgreSQL, Cloudflare Workers pokecards-collector.ayfri.com

The full Pokémon TCG catalogue (EN/JP) with prices and collections, refreshed weekly by a scraper.

Neural-Jump | Python, PyTorch, PPO github.com/Ayfri/Neural-Jump

1,000 agents learn a platformer in parallel (PPO, reverse curriculum), **7M steps/s** on GPU.

Minecraft Mob Vision | PyTorch, timm, ConvNeXt V2 github.com/Ayfri/Minecraft-Mobs-Vision

Classification and detection of 87 mobs, **93.6% top-1, 86.8% IoU**, dataset generated by a custom Kotlin mod.

DeepSky-Classifer | Python, scikit-learn, Prefect, FastAPI, PostgreSQL github.com/Ayfri/DeepSky-Classifer

Master's thesis, SDSS/Gaia ETL pipeline and Random Forest classification of stars, galaxies and quasars.

Also: TextureGen (SDXL Turbo LoRA fine-tune, ONNX, MLflow), agentic RAG (LlamaIndex, pgvector), GPT Images, Cat'aClysm (team tower defense in Godot 4), contributions to Kobweb and FabricMC.

Education

Master's, AI Expert & Data Scientist (RNCP level 7) | Ynov Campus | Aix-en-Provence 09/2024 - 2026

Work-study, machine learning, deep learning, NLP, MLOps and data engineering.

Bachelor's in Computer Science, Data track | Ynov Campus | Aix-en-Provence 09/2021 - 06/2024

Languages

French: native | **English:** advanced, written and spoken in technical contexts | **Interests:** video games, game design