



TANGUY PAUVRET

SOFTWARE ENGINEER

RESUME

Determined and passionate, I've built my career off the beaten path. After getting my high school diploma at 16 and starting neuroscience studies, I chose to enter the workforce, then left everything behind to reinvent myself in tech.

At 42, I discovered the power of collective intelligence and autonomous learning. Over the past three years in startups, I've shipped apps end-to-end, owning features from idea to production. I work primarily with Python (Django, FastAPI) and TypeScript/React, but I see programming languages as tools that serve well-thought-out, useful, and sustainable products.

I thrive in environments where I can own features end-to-end and ship fast. Whether it's iterating based on real user feedback, or diving into new tech, I'm happiest when solving real problems for real users. Outside work hours, I keep learning by shipping side projects, participating in hackathons, and contributing to open source.

When I'm not behind my computer, you'll find me running or planning my next food adventure. I spent years in restaurants before tech, and that love for cooking stuck with me.

EXPERIENCES

RESILIO – SOFTWARE ENGINEER

JANUARY 2023 – TODAY (Lausanne)

[Python](#) [Django](#) [TypeScript](#) [SQL](#) [React](#) [Docker](#) [CI/CD](#) [DevOps](#)

Owned **full-stack development and infrastructure strategy, leading features from conception to production**. I align **technology strategy with business goals** through research and **metrics-driven decisions**.

Primary architect for two core products: **ResilioTech** (an LCA platform) and **ResilioDatabase** (a custom-built dynamic API for environmental data).

- **Spearheaded Enterprise SSO integration**, collaborating directly with large-scale clients to map requirements and **implement secure authentication workflows** compatible with their internal systems.
- **Drove observability and performance strategy** by **implementing the LGTM stack**; optimized Django ORM and Celery queues to reduce dashboard load times from 15 seconds to under 600ms.
- **Modernized the QA architecture** by replacing Cypress with Playwright; cut E2E test runtimes by 75% (1h to 15m) and eliminated flaky tests.
- Built CI/CD pipelines with GitHub Actions and Docker for **automated PR testing**; created isolated QA environments, streamlining multi-team workflows.
- **Collaborated with product teams to refine complex calculation engines** based on consultant feedback, ensuring data accuracy for the LCA platform.

COOK

2017 – 2021 (Various restaurants) – Lacanau, Genève

Transition period between my studies and the search for what I wanted to do later in life. Decisions led me to Switzerland, which subsequently enabled me to join 42 Lausanne.

I learned a **lot of soft skills** during these experiences. Whether it was **communicating with others, organizing, or interacting with customers**.



GITHUB
[Bima42](#)

PORTFOLIO
[tanguypauvret.me](#)

LINKEDIN
[tanguy-pauvret](#)

DEGREES

ÉCOLE 42 – IT solutions designer and developer

OCT. 2021 – JANUARY 2023 | LAUSANNE

Project-based program emphasizing autonomy, collaboration.

- Peer-to-peer learning
- Design and management of information systems
- Mainly C/C++

You can find my main projects on my GitHub profile. Such as:

- **minishell**: develop the basics of bash in C
- **containers**: reimplement vector, map and stack with C++
- And more!

UNIVERSITY – Bachelor – Animal Physiology and Neurosciences

2013 – 2016 | POITIERS

LYCÉE PAUL GUÉRIN – Scientific High School Diploma

2013 | NIORT

SIDE PROJECTS

LLM Panel - LLM Chat desktop application

DECEMBER 2025

Electron React TypeScript

Developed a standalone, **daily-driver interface for LLM interaction**, improving upon the Zed IDE text thread concept.

- Leveraged **Lexical** to build a **high-performance editor**.
- Architected a plugin-style system where users create custom commands via JSON configuration.
- Implemented native file system access commands (file, tree) for dynamic context injection and currently integrating multimodal capabilities (Voice, Image).

MCPMEM - Portable user memory (Smithery Price)

24h Cursor Hackathon, Singapore, October 2025

Python FastAPI React Neo4j Graphiti

Created **temporal knowledge graph (Neo4j/Graphiti)** for LLMs, solving context portability issues. Enables evolving, relationship-based memory for any app.

Of course, we weren't able to complete the entire project. But the goal was to show the possibility of one or more LLMs adding and maintaining memory nodes.

Thanks to the MCP, this memory can be plugged in anywhere, allowing users to contextualize an LLM much more easily.

We also developed a small frontend demo application to visualize this memory.

VOLTAIRE - AI writing assistant

DECEMBER 2024 - JUNE 2025 | SaaS (2 devs team)

Python FastAPI NextJS SQL React Docker DevOps

AI assistant specialized in writing, addressing the limitations of general-purpose tools like ChatGPT. Voltaire offers an intelligent text processing interface that learns the user's style and accelerates the transformation of ideas into structured documents.

Achievements

- Developed a sophisticated **agentic system**, with various agents responsible for distinct tasks (writing from scratch, editing documents, etc.).
- Implementation of a **continuous feedback system via the application**, and a **WhatsApp group**
- **Integration of Posthog** mainly for sessions and path analysis
- **Maintaining constant dialogue with users** to validate developments
- 2 weeks for the POC, approximately 2 more months for the final MVP. The app became a paid app shortly after.
- We have had several hundred registered users.

PROMPT PILOT - XML Prompt generator

SEPTEMBER 2024 - NOVEMBER 2024 | SaaS (2 devs team)

Python React FAISS Docker

Developed an optimized prompt generation tool for LLMs, solving the problem of vague and poorly structured responses. It transforms a user request into XML-formatted prompts to obtain clear and controlled outputs.

WRITING BLOG POSTS

I write a few blog posts on my portfolio. My goal here is to share mainly about software architecture, whether it be my experiences, my discoveries, my technical choices (both good and bad), etc.

OPEN SOURCE CONTRIBUTION

Started recently (October 2025)

I've wanted to participate in open source projects that I particularly like for a long time, but I either never felt legitimate enough or didn't take the time.

I recently got started, with **Dokploy**.

I also looked into the **Posthog website repository** (it's worth a visit, check it out!).

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HOBBIES

 La Rochelle Marathon - November 2024
GR 441 - August 2025

 Walking with my dog Helios

 4+ years cooking experience
Huge fan of Eloy Spinnler's restaurants

 Started calisthenics 2 years ago

 Never miss a Gamers Assembly
to have a great time with friends

 Currently reading Designing
Data-Intensive Applications
(Martin Kleppmann)

REFERENCES

On demand

