

Thierry Bakera

Full-stack engineer, building AI agents and the systems around them

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Summary

Full-stack engineer building AI agents and the systems around them, working in Python and TypeScript. Lately: a git-based knowledge base that agents search and cite, multi-agent workflows with human approvals, MCP tool integrations, plugin systems and fully offline models. 4+ years shipping production features end to end, including the CI/CD and infrastructure behind them, mostly in open source.

Experience

Full Stack Engineer, SurfSense — open-source alternative to NotebookLM, Perplexity and Glean · Remote · Jul 2025 – Present

- Built multi-agent chat: a main agent delegating to specialist subagents in parallel, with human-in-the-loop approvals for sensitive actions (Python, FastAPI, LangGraph).
- Built a git-backed knowledge base that ingests external sources (GitHub and GitLab sync, Google Drive, Jira, Gmail and more), with hybrid search and line-level citations.
- Built the MCP server and a plugin system: SDK, author CLI, manifest validation and an isolated plugin runtime.
- Built SurfSense Local, an offline desktop app (Electron, SQLite, Ollama, llama.cpp), with signed installers, auto-updates and release CI.

Full Stack Web Developer, Ever Technologies · Remote · Jul 2024 – Dec 2025

- Built UI, state and data flow for Ever Teams, an open-source work management platform (Next.js, TypeScript).
- Maintained the Ever Gauzy API and improved front-end performance.

Open Source Developer, Wikimedia Foundation · Remote · Mar 2024 – Feb 2025

- Let contributors link a Wikidata item to an article right after creating it (Autosuggest sitelink).

Assistant Coach and Web Developer, KADEA (Kinshasa Digital Academy) · Goma · May 2022 – Feb 2025

- Taught programming languages and frameworks, reviewed code and mentored developers through their first projects (coach from Nov 2023).

Open Source Developer, Mozilla · Remote · Oct 2023

- Improved Balrog, Firefox's update server: showed all OS versions of a rule, streamlined update sign-offs, fixed a layout bug.

Skills

- **AI and agents:** LangGraph, LangChain, multi-agent orchestration, RAG and citations, MCP, evals, local models (Ollama, llama.cpp)
- **Backend:** Python, FastAPI, Node.js, NestJS, PostgreSQL, Redis, SQLite
- **Frontend and desktop:** TypeScript, React, Next.js, Tailwind CSS, Electron
- **DevOps:** Docker, CI/CD with GitHub Actions, release pipelines, OpenTelemetry and Grafana

Community

- **Shinobi Open Source Academy** · Python Community Kage (lead) · 2026 – Present: lead the Python community of a mentorship group that helps developers make their first open-source contributions.
- **Wiki Mentor Africa** · Mentor · 2025 – Present: mentor African developers contributing to Wikimedia's technical projects, including at its hackathons.

Education and certifications

- **ALX** — Full Stack Software Engineering (Back-end) certificate
- **ULPGL Goma** — Web development, 2020 – 2024
- **Udacity** — Web development, 2022 – 2023
- **Goma Digital Academy** — Web and mobile development, 2022 – 2023

Languages

French (full professional) · English (professional working)