SENIOR SOFTWARE ENGINEER, AI AGENTS AND LLM PLATFORMS · LYON AREA, FRANCE

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Software engineer with 12 years of experience, six of them at Michelin. Since 2024 I have been building and running the Python backend of Michelin's AI agents, used on Michelin and BFGoodrich websites in 9 countries, including the US and the UK, and checked in CI by an evaluation suite built on deepeval. In 2026 I benchmarked 19 models to replace a retiring LLM. Before that I developed and maintained Michelin's promotions platform in Node.js and TypeScript, used in 54 countries and 67 locales. I then led a team of 5+ developers as tech lead on the group's multi-brand consumer website platform. Today I write most of my code with AI coding assistants and focus on architecture and code review.

Looking for a senior AI engineer or AI tech lead role working on LLM agents, or a senior or lead role on web platforms, permanent or freelance, in the Lyon area or remote from France. Available after a 3-month notice period.

01 Experience

Michelin — CONSULTANT VIA CBTW

Lyon, hybrid · Nov 2020 – Present

Sep 2024 – Present

Senior Software Engineer · AI agent platform

- Build and run the backend of Michelin's AI agents in Python and FastAPI: **20 agents**, including those on Michelin and BFGoodrich websites in 9 countries and a WhatsApp agent in Mexico.
- On the platform side: tools exposed over MCP, several LLM providers (OpenAI, Azure OpenAI, Mistral), guardrails, a generic web crawler and vector search over the crawled pages.
- Set the team's testing standard for the agents with deepeval. Since July 2026 the evaluation suite (LLM judge and code checks) has grown from **148 to 346 tests** and 27 to 81 metrics. It is the regression gate in CI.
- Led the move off a retiring LLM: benchmarked 19 models with a script, then compared the finalists on real conversations with the test suite. The chosen model passed **146 of 148 tests**. It answers 16% faster and costs about half as much.
- Added code checks next to the LLM judge when product links dropped out of the new model's answers while the suite stayed green. Traced five CI failures on one commit to randomness in the agent and the judge, and made each retry draw a fresh answer.
- Run the production releases of the backend and its data pipelines (vehicle and tyre catalogues per market). Main contributor to the codebase.
- Built the internal web app, in SvelteKit and TypeScript, that the team uses to chat with the agents and configure them.

`Python` `FastAPI` `MongoDB` `OpenAI / Azure OpenAI` `MCP` `deepeval` `TypeScript` `SvelteKit` `Kafka` `n8n` `Terraform` `GitLab CI`

Mar 2023 – Sep 2024

Technical Lead · consumer websites

- Led a team of **5+ developers** on Michelin's multi-brand consumer website platform.
- Shipped the first user account system on Michelin's B2C websites, with sign-up and personalised experiences.
- Set the coding standards and mentored junior developers.

`Node.js` `JavaScript` `TypeScript` `Apostrophe CMS` `Docker` `GitLab CI/CD`

Nov 2020 – Mar 2023

Full Stack Developer · warranties and promotions platform

- Built and maintained Michelin's global platform for warranties, promotions and contests, used in **54 countries and 67 locales**, with internationalisation and multi-region deployment.

`Node.js` `JavaScript` `TypeScript` `Apostrophe CMS` `Kafka` `IAM` `Salesforce`

Galadrim FREELANCE

Paris · Jun 2018 – Nov 2019

Jun 2018 – Nov 2019

Full Stack Developer

- Built MVPs of health platforms for Ostéogo and OpenHealth, clients of Galadrim, a Paris web agency, working independently from specification to delivery.

`Node.js` `MySQL` `Pug` `SCSS`

Projetlys APPRENTICESHIP

Lyon · Sep 2014 – Oct 2017

Sep 2014 – Oct 2017

Developer

- At Projetlys, a Lyon Microsoft consultancy, built desktop and web applications from requirements gathering to deployment.

`C#` `.NET` `SQL Server` `Dynamics CRM`

02 Skills

GENERATIVE AI & LLM	`OpenAI / Azure OpenAI` `Mistral` `MCP` `Tool calling` `RAG (MongoDB Atlas Vector Search)` `NeMo Guardrails` `LLM evaluation (deepeval)`
BACKEND & DATA	`Python` `FastAPI` `asyncio` `Pydantic` `Node.js` `MongoDB` `Kafka` `SQL Server`
FRONTEND	`TypeScript` `Svelte / SvelteKit` `Astro` `Web components` `three.js`
DELIVERY & INFRA	`Docker` `GitLab CI/CD` `Terraform` `Azure (AKS)` `API gateway (Gravitee)` `n8n`
PRACTICES	`Automated testing (pytest, e2e, mutation)` `Release management` `i18n at scale` `Tech lead & mentoring` `AI coding assistants (Claude Code)`

03 Side projects

Sveld
A VS Code extension, published on the Marketplace, that shows Svelte components as live, interactive views.
`cedricdessalles.dev/sveld`

grid-router
A TypeScript library for orthogonal edge routing in node-link diagrams: A* on a grid, bus joins and crossing hops. Published on npm.
`cedricdessalles.dev/grid-router`

mesh-x
A JSX library for 3D meshes: AI-editable models exported to GLB, with its own VS Code extension.
`cedricdessalles.dev/mesh-x`

UAR Wiki
A wiki for Undead Assault Reborn, a StarCraft II arcade map: 428 units extracted from the map files, plus player profiles, clans, replays and a companion app.
`uar.cedricdessalles.dev`

04 Education and languages

École 42	Computer science	2017 – 2018
ISITECH	Master's-level qualification in information systems (EQF level 7)	2014 – 2017
Lycée Édouard Branly	BTS, a two-year higher-education diploma in computer science and networks	2012 – 2014
LANGUAGES	French: native · English: full professional proficiency	