



ARTHUR BAUDOIN

Backend & DevOps developer



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Tours, France

Backend & DevOps developer, almost 4 years of experience. I design APIs (TypeScript / Node.js, NestJS, GraphQL, PostgreSQL) for large companies and the public sector, and I see them through to production. Since 2026, I also run my company's Kubernetes platform and CI/CD: 19 environments, 10 of them in production.

SKILLS

DevOps & infra

- Kubernetes (Scaleway Kapsule)
- ArgoCD / GitOps, Helm
- Terraform / OpenTofu
- CI/CD (GitHub Actions)
- Docker, Traefik
- Linux, Bash, Ansible
- CloudNativePG, External Secrets
- Prometheus, Grafana, Loki, Tempo
- OpenTelemetry, SonarQube, k6
- Scaleway, AWS (S3, RDS, EC2)

Backend

- TypeScript, JavaScript, Node.js
- NestJS, GraphQL (Apollo)
- REST APIs, WebSocket, cron
- Prisma, PostgreSQL, SQL
- Python / FastAPI
- Go (tooling)
- Jest
- LTI 1.3 (Moodle), SCORM 2004

Applied AI

- LLM APIs (OpenAI, Mistral)
- Structured outputs (JSON)
- STT / TTS (Whisper, XTTS v2)

EDUCATION

CDA professional certification

Application designer and developer
— French RNCP level 6 (bachelor's level)

Wild Code School, 2022 – 2023

After the Web developer course (2022)

Two-year law degree (DEUG)

University of Orléans, 2014 – 2017

EXPERIENCE

My-Serious-Game

SEPT. 2024 – PRESENT

Backend & DevOps developer — serious games, Tours

Kubernetes platform, CI/CD & internal IT

2026 – PRESENT

- I **took over the company's GitOps platform** (Scaleway Kapsule, OpenTofu, Argo CD, Helm) and have run it on my own since March 2026: 19 environments, 10 of them in production, each with a replicated PostgreSQL database.
- I **upgraded Kubernetes from 1.32 to 1.35**, with all its components, without downtime or data loss. Every upgrade gets a playbook; when one went wrong, I fixed it and wrote the post-mortem.
- I **make sure backups actually restore**: a script restores each database and checks its integrity, and alerts go to Teams.
- I set up **observability**: metrics, traces, logs kept for a year, and a k6 load test on a production project.
- I **rebuilt our CI/CD**: shared workflows for the whole organisation, and all 11 repos moved to trunk-based development (one image per commit, promotion by tag).
- I **migrated our ERP** from self-hosted Odoo to Odoo Online, from dry run to cutover, and moved 7 years of archives from SharePoint to Scaleway.

French Red Cross training — serious game

2024 – PRESENT

- I wrote most of the **GraphQL API and data model** (NestJS, Prisma, PostgreSQL), working with a front-end developer. The platform is being rolled out nationwide, with about 2,000 registered users.
- On the server side, I built the **game engine** (answer checking, scoring, badges), a multi-role back office partitioned by region, statistics, imports and a shared simulated patient record.
- I rebuilt the **content pipeline**: the client's authors write in Airtable, and the import into PostgreSQL sends them an error report.
- I put a **quality safety net** in place: tests replayed on an anonymised copy of production, a SonarQube quality gate at 70% coverage, a review of the API's access rules and GDPR data retention rules.
- I also handle **production releases**, triage client feedback and estimate new features.

University of Reims (URCA) — 3D healthcare simulation, AI

2025 – 2026

- I wrote most of the **API**, and was the only developer on the web platform in 2026. Version 1.0 shipped in November 2025 (a France 2030 demonstrator).
- I built an **LLM conversation engine** that makes 3D characters talk (OpenAI, structured JSON outputs, prompts generated from the scenario, guardrails against hallucinations), and automatic "LLM-as-a-judge" grading against the instructional designer's rubric, alongside the trainer's own grade.
- I connected it to **Moodle** (LTI 1.3) and to our self-hosted STT / TTS voice services, with statistics and API cost tracking.

PRACTICES

- Runbooks, post-mortems, platform documentation
- Cloud and SaaS account administration (MFA, password vault, vendor tickets)
- Estimates and gap analysis on specifications
- Acceptance testing and technical discussions with clients
- Internal technical talks

LANGUAGES

- French (native)
- English (bilingual)
- German (basics)

INTERESTS

- Self-hosting (Linux)
- Piano
- Cooking
- History, macroeconomics

My-Serious-Game (continued)

RATP — “Mon client IA”, voice simulator

2026 – PRESENT

- I’m the **only backend / AI developer**: a real-time voice loop over WebSocket (Whisper transcription, Mistral reply, streamed speech synthesis), with one API contract shared by the web app and the VR headset (Unity client built by a colleague).
- I **made the dialogue reliable** (timeouts, rate limiting, filtering hallucinations on silences, turn-taking), and wrote an LLM evaluator with weighted criteria to compare models on reference conversations.
- I shipped a **scenario editor**: the client’s trainers create their own scenarios, with consistency checks and shared instructions.
- I built a **GPU TTS microservice** (Python, FastAPI, PyTorch) with a worker pool, a load-testing tool in Go and the Ansible deployment.
- I turned it into a **SaaS product**: a public demo with e-mail sign-up and usage quotas, versioned 3D assets (signed URLs) for the technical artist, and a landing site deployed with Ansible on a bare-metal server.

Other projects

2024 – 2026

- **EPSF**: the backend of the “Train Pursuit” railway quiz, with real-time turn-based duels. **Centre-Val de Loire region**: I took over an existing backend and rebuilt the skills scoring.
- **SNCF**: a SCORM 2004 ↔ Unity connector, 23 modules packaged in two and a half weeks. **Excelia**: a serverless API (AWS Lambda) for PDF reports, which I’ve maintained on my own since 2024.

Union d’Experts

JUNE 2023 – MAY 2024

Full-stack developer — Saint-Avertin

Mission MAIF – Calyxis

2024

- I gathered the requirements and built a data-entry app that generates PDF reports automatically, with a tracking dashboard; I also ran an internal training session.

Mission SFEIR

2023 – 2024

- In an agile team, I built the app’s back office and the technical and legal document templates (PDF).
- I merged 28 databases into a single schema and connected the app to the existing information system.

RazrNet

FEB. 2023 – JUNE 2023

Full-stack developer (internship) — Orléans

- I designed, built and deployed **RecapGPT** (recapgpt.io), an AI video-summary tool: several third-party APIs, user accounts, Stripe payments. Next.js 13, NestJS, Redis, Supabase, Docker.