

Nearly four years at Equans (Bouygues Group) building software for buses and trams, from on-board systems to full-stack web, rising to tech lead. Independent since 2025: contract work for SaaS vendors, then Aplorio, an invoicing application in production with its first paying customers.

EXPERIENCE

Independent Software Engineer

Aplorio · invoicing software for construction trades

Jun 2026 – Present

- Design and build the application end to end, from quotes to payments, with Stripe subscriptions and an Android app on the Play Store (Nuxt 4, TypeScript, SQLite, 140 server routes).
- Implement e-invoicing for France's 2026 mandate, connected to a government-accredited platform (Factur-X).
- Ship an AI assistant that runs the whole application through chat, for tradespeople who struggle with screens.
- Gate every release on tests: access checks on every route, data isolated between customers.

Freelance contracts (T2D)

Jul 2025 – Jun 2026

- **Praxedo** migrated a production application from Nuxt 2 to Nuxt 4, with strict TypeScript and Playwright tests.
- **Sami** shipped a B2B SaaS module end to end: Nuxt 4, PostgreSQL, roles and permissions, Stripe subscriptions.
- **illiCO travaux** built an internal job-tracking tool: legacy data migration, shared scheduling, generated PDF reports.

Ineo Systrans, Equans (Bouygues Group)

Tech Lead, Software Engineer

Jun 2024 – Jun 2025

- Worked directly with the client on the main project, Toulouse's bus network (driver interface, passenger information).
- Re-architected the application that drives on-board equipment on buses and trains (visual editor, dashboard, REST API) and moved it to strict TypeScript across 500+ files.
- Rewrote in Rust, one by one, modules of a production on-board C++ codebase dating from the 1990s: 10x faster.
- Cut workstation setup from days to minutes for a 20-person team.
- Settled priorities with clients, and onboarded and mentored new hires.

Software Engineer

Sep 2021 – Jun 2024

- Migrated a 200,000-line web application from Nuxt 2 to Nuxt 3.
- Built an internal project-management tool (Jira-like) used by 500+ employees.
- Set up automated testing and continuous deployment on GitLab CI.
- Built the GPS modules of the bus and tram on-board C++ software, and a Qt diagnostics tool.

EDUCATION

Master's-Level Engineering Degree in Computer Science

CY Tech, Paris Region

2019 – 2024

- Major in embedded systems, final three years completed as an apprentice at Ineo Systrans. CTI-accredited degree.
- Internship abroad at Ineo Systrans Canada (Québec).

SKILLS

Languages TypeScript / JavaScript · SQL · Rust · Go · C++ · Python · Bash

Frontend Vue.js 3 / Nuxt · React · Svelte / SvelteKit · Tailwind · design system · accessibility

Backend Node.js / Nitro · REST APIs · GraphQL · PostgreSQL · SQLite · Drizzle ORM · Stripe · OAuth 2.1

Quality Vitest · Playwright · strict TypeScript · hexagonal architecture · continuous integration

Systems Linux · Docker · Kubernetes · Nix / NixOS · GitLab CI · GitHub Actions

AI Anthropic SDK · MCP server built from scratch · Claude Code and coding agents

Spoken French (native) · English (bilingual)

PROJECTS

Kilorep 🌐 kilorep.com Training tracker, web and Android. Works offline, driven by an AI agent.

Universe 🐙 ilyasturki/universe Gamepad-driven Linux game launcher. Rust core, Qt and GTK frontends.

dircmp 🐙 ilyasturki/dircmp Side-by-side directory diff in the terminal (TypeScript). On npm, the AUR and Homebrew.

VOLUNTEERING

🌐 **Entraide Scolaire Amicale (ESA)** Volunteer math tutoring for children struggling at school, in Cergy