

Gabriel Debarnot

Full-Stack Developer · AI Systems · Security

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PROFILE

Full-stack developer with four years of hands-on experience across React, Vue, Node.js, Python and Swift, currently principal engineer on a platform migration serving thirty schools in production. I ship complete applications end to end — architecture, backend, front end — and build AI systems that run in production rather than proofs of concept. Completing an MSc in Computer Science with a security specialisation (Sept. 2027), available for freelance and contract engagements alongside it.

EXPERIENCE

Full-Stack Developer — Apprenticeship · 2C2L Mar. 2025 – Sept. 2027

Scheduling platform for ski and theatre schools · ~30 schools in production · 3-person engineering team

- **Principal engineer on a full platform migration** from a legacy Django application to a Vue 3 / Quasar web app, delivering the rewrite while the existing system stays live for its user base.
- **Designing and building the backing API** that serves the new front end and defines the contract for future clients.
- Working directly against a real customer base of roughly thirty schools, where scheduling errors carry immediate operational cost.

Lead Developer · Winway (Vybe) Mar. 2026 – present

Creator-economy platform · early build phase · 3-person team · equity holder in the parent company

- **Defining the architecture and technical direction** of the product — stack, data model and delivery plan for a Next.js 14 / TypeScript / Fastify / PostgreSQL platform with Stripe Connect payments and Cloudflare R2 media delivery.
- **Planning the AI layer** — an in-product assistant to shorten creator onboarding, and content-ranking logic for the discovery feed.
- **Owning the pre-launch security posture**: authentication design, payment-flow threat modelling and data-handling review.

Founder — Web & AI Consulting · GDT (gdtx.fr) 2024 – present

Registered independent activity, Auvergne-Rhône-Alpes

- Website design and delivery for local institutions, and AI consulting for businesses automating concrete workflows rather than adopting tooling for its own sake. Diagnostic-first engagements built around a single measurable deliverable.

SELECTED PROJECTS

Domus — Full-stack renovation manager · personal project, in daily use

- End-to-end management of a rental-property renovation: cost estimation, year-long worksite tracking and investment-profitability projection. ~30-table data model, shipped as 25 self-contained phases, each type-checked, linted, tested and built green before merge.
- **Row-Level Security as the trust boundary** — the database enforces access, not the application layer. Domain logic (cost calculator, French tax and yield engine) written as pure, unit-tested functions.
- Next.js 16 (RSC, Server Actions), TypeScript strict, PostgreSQL/Supabase, Prisma, Claude-powered assistant with vision receipt scanning, offline write queue replayed on reconnect.

Cotae — iPad LiDAR surveying & floor-plan modelling · personal project

- **Reverse-engineered the Bluetooth GATT protocol** of a Bosch UniversalDistance 40C laser rangefinder (BLE frame decoding) to feed precision measurements directly into the app.
- iPad LiDAR scan via RoomPlan / ARKit converted into a clean, editable geometric model (free polygons, per-wall heights, sloped ceilings); geometric insulation calculation by polygon-edge offset for true post-works surfaces.
- Swift, SwiftUI, CoreBluetooth · shared Supabase/Postgres schema with an existing Next.js calculator.

Hermes — Local-first AI assistant orchestrator · personal project

- Self-hosted orchestrator running **Qwen 2.5 14B locally on an RX 7900 XTX via ROCm** (~63 tok/s), with cloud fallback to Claude Haiku. FastAPI backend (REST + WebSocket), modular tool registry, hands-free voice pipeline (openWakeWord → faster-whisper → LLM → Piper TTS) running as systemd services; NFC-triggered automation via an intent routing table.

Notion / MCP Engineering Workflow — Agent-driven development pipeline

- Claude Code integrated with Notion and the GitHub MCP server: a custom command suite for task intake, implementation, ripple-effect verification and status sync across six active projects — including a queue-table pattern that eliminated a class of agent failures in property filtering.

TECHNICAL SKILLS

Front end React, Next.js, Vue 3, Quasar, TypeScript, Tailwind, Flutter

Back end Node.js, Fastify, Python, FastAPI, Django, PostgreSQL, Prisma, Supabase

Mobile / native Swift, SwiftUI, ARKit / RoomPlan, CoreBluetooth

AI systems LLM orchestration, local inference (Ollama, ROCm), tool routing, RAG, MCP, Anthropic API, agent workflows

Security Row-Level Security, network segmentation, pfSense, VPN, threat modelling, MITRE ATT&CK

Infrastructure Docker, Proxmox, KVM, systemd, Linux, Tailscale, Vercel, Cloudflare R2

EDUCATION

MSc Computer Science — Security specialisation · Epitech, Lyon *expected Sept. 2027*

Work-study programme combining coursework with the 2C2L apprenticeship.

LANGUAGES

French — native **English** — B2, professional working proficiency