

# Pierre de Gaujac

Senior Backend Engineer / Full Stack Developer — TypeScript, NestJS

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Availability: short notice

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## PROFILE

Backend-focused full stack developer with **6 years of experience on a TypeScript / NestJS / PostgreSQL stack**, specialising in application architecture and distributed systems. Acting as technical lead at Stiilt since 2023, I am now looking for a role centred on designing and building robust backend systems and tackling complex technical challenges. Native-level English and French.

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## WORK EXPERIENCE

**Stiilt** 2020 – 2026

Senior Backend Engineer / Full Stack Developer — TypeScript, NestJS

**FPS Navigator** — B2B SaaS, commercially released

Automated parking fine management platform integrated with France's national traffic authority (ANTAI), built on a multi-tenant architecture.

- Designed an OCR + AI pipeline using Google Cloud Document AI, reducing per-fine processing time from ~15 min to ~30 sec.
- Built a distributed BullMQ / Redis architecture with queue management, retry policies and monitoring, scaled for ~35 000 fines/day.
- Developed a secured partner API: API keys, payload validation, request signing and fine upload.
- Implemented payment, notification and recharging workflows in a multi-tenant environment.

**Neo-leasing platform** — B2B2C SaaS, commercially released

Web and mobile vehicle leasing application covering the full customer lifecycle: subscription, contract, vehicle inspection, access and fleet tracking.

- Migrated legacy .NET backend to NestJS / TypeORM / PostgreSQL.
- Built modules for contracts, digital vehicle inspection reports, automated KYC and multi-channel payments.
- Implemented near real-time telemetry for ~200 vehicles via a standalone WebSocket relay deployed on Kubernetes.
- Integrated virtual key access via Continental SDK and NFC.

**Technical lead** — Cross-team, from 2023

- Defined backend standards: NestJS module structure, API conventions, error handling and data validation.
  - Introduced a Jest-based testing framework and development quality gates, with Git hooks and protected branches rejecting pushes when tests fail.
  - Conducted code reviews and mentored junior developers and interns.
  - Led technical scoping and architecture decisions for new features and migrations.
  - Authored French R&D tax credit filings (CIR/CII) covering technical innovation and research.
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## TECHNICAL SKILLS

**Backend** TypeScript, NestJS, Node.js, PostgreSQL, TypeORM, BullMQ / Redis, REST API design

**Frontend** Angular, React, TypeScript

**Infrastructure** Kubernetes (GKE), Docker, Helm, CI/CD

**Architecture** Multi-tenant SaaS, standalone services, workers/queues, event-driven, distributed systems

**Quality** Jest, automated testing, Git hooks, protected branches, code review, technical standards

**Methods** Technical specification, Agile

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## EDUCATION

M1 MIAGE — part-time, distance learning (in progress) 2025 – 2026

Full Stack Developer — Le Bocal, Sophia-Antipolis 2018

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## LANGUAGES

English — native (grew up in the UK, Cambridge Advanced Certificate) · French — native

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## INTERESTS

Astrophotography · Homelab & self-hosting · Music