

Nicolas Simon

Staff Engineer · Tech Architect

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Architecture
Services by business domain, Event-driven (RabbitMQ), System design, Data modelling, API design

Backend
TypeScript, Node.js, NestJS, PostgreSQL, MongoDB, Redis

Platform
Kubernetes, GCP, GitOps / ArgoCD, Terraform, CI/CD, Datadog

AI engineering
Claude Code, Coding agents, MCP, Spec-driven development

Frontend
React, Next.js, React Native

Leadership
Team management, Hiring & coaching, Roadmap with Product, Engineering standards

French
Native

English
Fluent

EPITA Software Engineering
2015 – 2018

42 Paris Piscine
2015

Improv theatre

Hands-on architect with 6+ years at Trusk, a last-mile logistics and transport scale-up, owning the hardest design problems of a Node.js / TypeScript platform of business-domain services on Kubernetes: a **generic state engine**, a **data-model redesign that retires the legacy monolith**, service consolidation and **platform-wide authorization**. I write the specs, review the code and ship it myself, increasingly by **directing coding agents across dozens of repositories**. **~3,300 PRs authored and 5,000+ reviewed** across ~80 repositories at Trusk.

Trusk **Paris**

Tech Architect **02/2025 – Present**

- Mapped the full system landscape (~50 services across 4 business domains) and drove its decommissioning: **11 legacy services retired in 2025**, 15 more through the 2026 migrations
- Architecture I steer: **500+ REST endpoints on 26 NestJS services**, RabbitMQ across **38 services**, PostgreSQL, Redis, S3; Kubernetes, ArgoCD, Terraform
- Took the generic State/Status engine from design study (6 architectures compared, up to Temporal workflows) to production: lifecycle roll-up across orders, missions, tasks and roundtrips, now **~74,000 state updates a day**
- Architect of PDT26, the transport-plan engine replacing the legacy calendar: **73 documented design decisions**, taken to a site pilot at Wissous
- Drove the data-model redesign (Order → OrderMission → Mission) and managed the **plan to cut off the legacy one-entrypoint distributed monolith**
- Designed the consolidation of **4 overlapping systems** (monolith, dispatcher, mobile gateway, sourcing) into a **single Fleet service**, cut over in two batches (first batch live Oct 2025)
- Led the **IAM** authorization overhaul: 250+ PRs across 42 repositories, largely executed by AI coding agents from a written spec; 300+ API routes secured and 11 production services cut over with **zero auth incidents** (feature flags)
- Led the 2026 geocoding centralisation: every call behind one service (~85% served from cache) and a cheaper provider chain, as accurate as Google, projected to **cut geocoding costs by ~95%**
- Platform: NestJS 11 upgrades, Kubernetes, GitOps/ArgoCD, Terraform (Auth0/IAM), feature flags, per-PR preview environments, Datadog
- **AI-native delivery**: agent-driven migrations, Claude Code plugins, MCP tooling
- Led delivery of the new central back-office **within a year**: one tool for ~150 internal users (customer care, dispatch, transport), built to retire 2 legacy back-offices and the legacy auth system

- **Lead the Core team: 5 developers** (2 senior, 2 mid-level, 1 junior) within a ~19-person tech team, partnering daily with Product on roadmap and scope; run rituals and retros, and hire

Team Lead – Order Taking squad **05/2022 – 11/2025**

- Helped steer all the application changes of the move from hosted VPS to Kubernetes, then redesigned the dev & release process across 60+ services (GitHub Actions shared workflows, semantic-release, Renovate, Terraform-managed permissions): **release preparation time divided by ~3**
- Shipped **20+ retail client integrations** (e.g. ManoMano, Alinéa, Poltronesofa, Vente Unique, Emma) and drafted the **generalisation of client interop**, how clients connect to Trusk: EDI intake split into a generic parser and readers, shared EDIFACT library
- Managed the Order Taking squad (4 developers, reporting to the CTO) in Scrum on Linear, writing **~2,300 tickets**, and its roadmap with the Product Manager

Backend Developer **02/2020 – 05/2022**

- Main developer of the B2B pricing engine: per-client price grids for ~10 retail accounts (IKEA, Alinéa, Conforama, Fermob…) billing **~€1.6M a year**
- Main backend developer of the **first version of the driver-app API** (alpha 2 → 6); built the push-notification and SMS-template micro-services from the first commit; redesigned the WMS (Warehouse Management System)
- Made EDI order intake generic; top committer as it reached **13 retail integrations**
- Ran cross-service platform migrations: 161 PRs across 22 services (container builds to Google Container Registry, shared CI configs, Datadog tracing); moved 9 micro-services onto the shared **RabbitMQ** module with **AsyncAPI** docs
- Grew into the lead role: release manager, sprint prep, more reviews than own PRs

Gaston **Paris**

Co-founder **2018 – 2020**

- Co-founded a B2B telephony start-up; built the web and mobile apps and the real-time call-handling backend (React, React Native, Node.js, Twilio, GCP)
- Named **“App of the week” by Maddyness**; featured on ****Europe 1** radio**

Freelance **Paris**

Software Engineer & Consultant **2016 – 2020**

- Innovation consulting at Schoolab (educational mini-games); intranet and accounting back-office migration; chatbots, crawlers and websites