

# BENJAMIN GAULTIER

Full Stack Engineer • 7+ Years Experience • US/FR Dual Citizen  
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Paris, France | Open to international relocation

## SUMMARY

Full stack engineer with 7+ years building production systems in TypeScript, Java, and Python. Deep experience in financial transaction processing, regulatory compliance, and payment workflows in banking environments. Recently designed and built a CDC-based search infrastructure and shipped SEPA transaction recall and compliance tooling for a new digital banking product. Comfortable owning architectural decisions, working in regulated environments, and collaborating with business and operations teams.

## EXPERIENCE

**Full Stack Engineer (NestJS / React / TypeScript)** — LCL Digital Banking, Paris Jun 2025 – Present

*L by LCL Pro — Back-office platform for a new neobank product for professional clients. Team of 5 (4 engineers + PM).*

- Designed and built a real-time search infrastructure as technical owner: CDC pipeline (PostgreSQL WAL → AWS DMS → Kinesis → NestJS → OpenSearch) aggregating 7 tables across 2 databases into denormalized documents, with dynamic FK resolution chains of variable depth and queued ingestion for event ordering guarantees
- Implemented SEPA transaction recall workflows (SCT-Inst, SDD) for financial transaction processing, routing transfers by flow type (debit/credit) and handling refund and contestation logic across inbound and outbound payments
- Built regulatory compliance tooling in a security-sensitive environment: account blocking/unblocking with automated client notifications, VOP (Verification of Payee) for IBAN verification, and GARO file generation for Banque de France reporting
- Integrated Keycloak for agent authentication; collaborated with operations and compliance teams to translate regulatory requirements into technical implementations

**Backend Engineer (Java / Angular / TypeScript)** — LCL, Paris Aug 2022 – Jun 2025

- Designed and developed REST APIs in a microservices architecture handling banking operations; enforced code quality through systematic code reviews and comprehensive Jest test suites
- Built and maintained browser interfaces in TypeScript/Angular for back-office banking workflows
- Managed CI/CD pipelines with Kubernetes and Docker for continuous deployment in a regulated banking environment

**Backend Engineer (Python / GCP)** — Orange, Paris Jan 2022 – Aug 2022

- Built a REST API layer connecting Google Cloud Platform services to internal front-end applications, enforcing role-based access control and data protection on sensitive resources
- Implemented automated data labelling on Google Data Catalog through event-driven listeners on remote file changes

**Full Stack Engineer (Python / Angular / MongoDB)** — French Interior Ministry, Paris Jan – Dec 2021

- Built a full stack application that digitized and simplified visa and citizenship processing workflows, used by government agents nationwide
- Developed REST APIs in Python to orchestrate data flows between MongoDB, the Angular front-end, and external government services

**Backend Engineer (Java / PostgreSQL)** — SNCF Réseau, Paris Nov 2017 – Mar 2020

*France's national rail infrastructure operator. Train simulation and operations planning.*

- Designed and built a train operations simulation algorithm that scaled from 1 simultaneous train to 50+, processing up to 600 trains per day
- Collected, cleaned, and analyzed real-world train operations data to improve simulation accuracy
- Built a real-time visualization front-end using Mapbox GL, Django, and React to display simulation results on an interactive map

## SIDE PROJECTS

**News Globe (TypeScript / React / Cloudflare Workers)** — [news-globe.maze-td.workers.dev](https://news-globe.maze-td.workers.dev)

Interactive 3D globe of the top headlines in 175 countries, ranked by coverage; hourly RSS ingest with story clustering

**maze-td (TypeScript / Three.js)** — [maze-td-relay.maze-td.workers.dev](https://maze-td-relay.maze-td.workers.dev)

Maze tower defence for phones with co-op and versus over a deterministic lockstep relay; ships as one HTML file

## TECHNICAL SKILLS

**Languages:** TypeScript, Java, Python, SQL, C# **Backend:** NestJS, Django, Flask, REST APIs, Microservices

**Frontend:** React, Angular, HTML/CSS **Search & Data:** OpenSearch, PostgreSQL, MongoDB, Kinesis, DMS

**Cloud & DevOps:** AWS, GCP, Kubernetes, Docker, CI/CD, Git, Linux **Practices:** Agile/Scrum, TDD, Code Review, Jest

## EDUCATION

**Master in Software Architecture** — ETNA, Paris 2017–2019

**B.S. in Economics, Minor in Computer Science** — University of Oregon, Eugene, OR, USA 2017