

# Jack Sacali

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## PROFESSIONAL SUMMARY

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Product-minded Senior Engineer with 10+ years of experience bridging the gap between system architecture and UX design. Specializes in building internal SaaS platforms from scratch (0-to-1) and 'Actionable Analytics' engines. Background ranges from scaling high-volume travel systems (100M+ daily requests) to prototyping consumer mobile experiences. Deeply proficient in the modern TypeScript ecosystem (React, Node.js, GraphQL) with a focus on performance and developer experience.

## WORK EXPERIENCE

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### Senior Software Engineer

IKEA

March 2022 – Present

Amsterdam, NL

- **Founding Engineer (Flexa BI):** Identified a critical inefficiency in Fulfillment Planning, pitched the solution to leadership, and architected a proprietary BI engine from scratch (0-to-1), eliminating 2+ years of redundant dev cycles.
- **Semantic Layer & Cloud-Native Writeback Engine:** Engineered a declarative 'JSON-to-SQL' translation layer in Node.js (Express) enabling bidirectional data binding, allowing planners to write-back forecasts directly on the grid. Architected the system as a self-contained, infrastructure-agnostic Docker image, enabling any team to instantly provision the platform simply by injecting initial DB credentials and environment variables.
- **From Prototype to Platform:** Built the initial Frontend-heavy prototype with one partner, successfully proving business value to secure a dedicated team partnered with Product and Design to iterate the MVP. Then scaled the project to a full Internal SaaS with Authentication, Workspaces, and RBAC.
- **Micro-Frontend Architecture:** Evolved the platform into a composable ecosystem, allowing different teams to inject reusable JavaScript bundles and scale features independently.
- **Adoption & Scale:** Currently adopted by multiple core teams for high-traffic use cases, reducing the time to spin up new internal tools from months to days.

### Senior Software Engineer

KLM

November 2017 – February 2022

Amstelveen, NL

- **Large-Scale Web Application Development:** Developed core business modules (check-in, trip, search, profile) for the "BlueWeb" platform using Angular and GraphQL, working within a distributed agile department of ~80 developers across 10 sub-teams.
- **Keeping the Stack Alive:** Managed the complex process of keeping a massive enterprise codebase on the latest version of Angular. This occasionally required direct collaboration with Google's Angular team to fix edge cases that only appear at our scale.
- **High-Volume Data Integration:** Built and optimized frontend features consuming a federated GraphQL layer, serving 100+ million daily requests and supporting ~€2.25 billion in monthly revenue (for both Air France & KLM).
- **Load Testing Specialist:** Became the go-to person for stress-testing the GraphQL aggregation layer. Maintained the Gatling (Scala) load testing suite for 3+ years, executing daily performance validations in Jenkins to ensure APIs could handle 100M+ daily requests.
- **Critical Delivery:** Led the worldwide rollout of the new Check-in flow and "Automated Document Check" (ADC), executed the migration to Flying Blue 3.0 through the web app profile section. Also ran the technical effort to get our frontend code GDPR compliant before the regulatory deadline.

## WORK EXPERIENCE

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### Frontend Developer (Internship)

March 2017 – October 2017

de Bijenkorf

Amsterdam, NL

- **Market Entry & Rapid Adaptation:** Successfully transitioned from legacy PHP experience to a modern React stack, contributing directly to the checkout codebase of the Netherlands' premier luxury retailer. Mastered enterprise Agile workflows and CI/CD standards.
- **Product Prototype (The "Wayfinder" App):** Independently researched, designed, and prototyped an in-store navigation app to help customers locate products within the physical mall.
  - Design & UX: Created high-fidelity UI mockups following strict brand guidelines (Figma/Sketch).
  - Technical PoC: Built a full Frontend prototype with a basic Backend.
  - Problem Solving: Identified the critical "Indoor GPS Signal Loss" blocker and proposed architectural solutions using Wi-Fi triangulation and signal extenders, laying the groundwork for a feature that launched years later.

### Independent Consultant & Full Stack Developer

2012 – 2016

Freelance

Remote / Hybrid

- **End-to-End Delivery:** Delivered 40+ custom web solutions for SMB clients in e-commerce and media, managing the full lifecycle from requirements gathering to deployment.
- **CMS Ecosystems:** PHP-based content management systems Drupal & WordPress, writing custom plugins and themes to meet specific client business needs.
- **Client Management:** Operated as a technical consultant for non-technical business owners, translating their requirements into functional, revenue-generating websites.

### Web Developer & Server Administrator

2006 – 2012

Phoenix Web Development

Latakia, SY

- **Linux Server Administration:** Managed dedicated hosting environments using WHM/cPanel. Responsible for server provisioning, DNS configuration, email routing, and security hardening for client websites.
- **Early Web Communities:** Built and maintained high-traffic community forums and portals using PHP-Nuke and vBulletin, handling database optimization (MySQL) to support active user bases.
- **LAMP Stack Development:** Developed dynamic websites using the classic Linux, Apache, MySQL, PHP stack, gaining a foundational understanding of backend logic and database relationships long before modern frameworks existed.

## EDUCATION

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### Full Stack Web Development

2017

HackYourFuture

Amsterdam, NL

### Bachelor's Degree of Media & Journalism

2011

Damascus University

Damascus, SY

## TECHNICAL SKILLS

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**Languages** | JavaScript, TypeScript, PHP (Legacy)

**Frontend** | React, Angular, Next.js, Micro-frontends, Vite, Webpack.

**Backend** | Node.js, Express, NestJS, GraphQL, PostgreSQL, REST APIs, Redis.

**Test & Infra** | Jest, Cypress, React Testing Library, CI/CD, GCP, Docker, k8s

**Product & Design** | Figma, UI/UX Prototyping, Adobe Creative Suite, User Research.