

# Yousof Kamal

## Expert Senior Software Engineer

### SUMMARY

Accomplished software engineer with 13+ years of experience designing resilient backend systems and scalable digital platforms. Deep expertise in Node.js, TypeScript, Kafka, GraphQL, event sourcing, and cloud-native architecture on AWS and GCP. Proven leadership in implementing high-impact, secure, event-driven microservices. Experienced in stakeholder engagement and team mentoring. Passionate about clean code, system optimization, and continuous technical innovation. Core Competencies: - Senior Software Engineer with a proven track record in complex, distributed systems in enterprise environments. - 8+ years of technical leadership and stakeholder collaboration - Backend-focused full-stack engineer with modern cloud, serverless, and data expertise - Strong foundation in microservices, CQRS/ES, and event-driven design - Cloud platform experience: AWS, GCP, Cloudflare (Pages/Workers), Vercel - Framework agnostic, T-shaped Software Engineer, and an expert web developer

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Node.js (12 yr.), TypeScript (8 yr.), Kafka (5 yr.), AWS (8 yr.), Laravel (11 yr.)
<b>Programming Languages</b>	TypeScript (8 yr.)
<b>JavaScript Libraries and Tools</b>	Electron (5 yr.), Fastify (8 yr.), Redux (8 yr.), RxJs (6 yr.)
<b>JavaScript Frameworks</b>	Express (10 yr.), Hono, NestJS (9 yr.), Next.js (6 yr.), Node.js (12 yr.), Nuxt (6 yr.), React (9 yr.)
<b>PHP Frameworks</b>	Laravel (11 yr.)
<b>Java Frameworks</b>	Spring
<b>Databases &amp; Management Systems / ORM</b>	AWS DynamoDB (7 yr.), AWS ElasticSearch, MongoDB, MySQL (12 yr.), PostgreSQL (6 yr.), Redis (8 yr.), Snowflake (3 yr.)
<b>Cloud Platforms, Services &amp; Computing</b>	AWS (8 yr.), CloudFlare, GCP, serverless, Vercel
<b>Amazon Web Services</b>	AWS CloudFront, AWS DynamoDB (7 yr.), AWS ElasticSearch, AWS Neptune (3 yr.)
<b>Methodologies, Paradigms and Patterns</b>	Distributed systems, Event Sourcing (5 yr.), microservices, REST (11 yr.)
<b>Virtualization, Containers and Orchestration</b>	Docker (10 yr.), Kubernetes
<b>Version Control</b>	Github Actions

<b>SDK / API and Integrations</b>	GraphQL (8 yr.)
<b>Mail / Network Protocols / Data transfer</b>	GRPC (3 yr.), WebSockets (6 yr.)
<b>Message/Queue/Task Brokers</b>	Kafka (5 yr.)
<b>Soft Skills</b>	Leadership
<b>File Systems, Storage</b>	Protobuf (5 yr.)
<b>Platforms</b>	WordPress (13 yr.)
<b>Other Technical Skills</b>	Backend, Bun, Deno, SSE

## WORK EXPERIENCE

### Senior Software Engineer

Sainsbury's Tech, J Sainsbury's PLC – London, UK | Hybrid-Remote | Nov 2022 – Present

Architected and delivered business-critical authorization and gateway solutions for the Together With ecosystem, serving as technical lead for multiple high-impact projects affecting millions of customers.

#### **Key contributions:**

- **Architected enterprise authorization platform** replacing legacy monolith, achieving 95% improvement in administration speed and enabling secure rapid application development across business units
- **Designed and implemented custom L7 API Gateway** using NestJS and Hono.js, capable of handling 1M+ simultaneous requests per pod with memory-efficient proxy capabilities for HTTP, WebSocket, and Server-Sent Events
- **Led Event Sourcing architecture implementation** resulting in 80% performance improvement over legacy solutions, utilizing Kafka, DynamoDB, and Neptune graph database for real-time data processing
- **Implemented asymmetric encryption protocols** for secure internal communication preventing MITM attacks, successfully passing multiple InfoSec security audits and compliance reviews
- **Built scalable notification engine** using Redis as document database with full-text search capabilities, enabling real-time communication between 3rd party and integrated applications via Server-Sent Events
- **Mentored development team** on Event Sourcing, CQRS patterns, and GraphQL Federation while leading strategy sessions and stakeholder management with Engineering Managers and Product teams

**Technologies:** Nodejs, Deno, Typescript, Kafka, Redis, DynamoDB, React, Nextjs, Neptune, Spring, MongoDB, PostgreSQL, MS SQL, Snowflake, Kubernetes, AWS, GraphQL, Jira, etc.

### Full-stack Technical Lead

BairesDev LLC – Remote | Jan 2022 – Jan 2023



Led technical modernization initiatives and product roadmap execution, driving performance improvements and cost optimization across core web services and marketing platforms.

#### **Core Contributions:**

- **Spearheaded JAMStack modernization** of legacy marketing websites and lead management services, implementing cloud-based architecture that improved performance by 300% while reducing operational overhead
- **Resolved critical legacy system issues** within first 6 months, implementing forward-compatible solutions and establishing best practices for scalable development
- **Collaborated with C-level executives** on technology strategy and infrastructure decisions, contributing to product roadmaps and feature development across multiple departments
- **Optimized cloud infrastructure** resulting in significant cost reductions while maintaining high availability and performance standards
- **Established development processes** and code quality standards, improving team productivity and deployment reliability

**Technologies:** Nodejs, Typescript, Redis, DynamoDB, React, Nextjs, PostgreSQL, GCP, Laravel, WordPress, GraphQL, Jira, etc.

#### **Lead Developer**

100 Marketers LLC – Remote | Aug 2020 – Apr 2022

Defined architecture for a high-throughput data ingestion system processing lead data from 1200+ sources. Led a team of 15+ developers across multiple departments and product lines. Architected and delivered an enterprise-scale lead management platform while leading a distributed development team and managing an extensive web property portfolio.

#### **Core Contributions:**

- **Architected comprehensive lead collection system** processing data from 1,200+ sources, implementing real-time and pre-computed reporting mechanisms that reduced processing time by 300%
- **Led development team of 15+ engineers** while managing technical operations for 800+ websites, establishing development standards and deployment pipelines
- **Reduced infrastructure costs by 65%** through strategic migration to optimized AWS and GCP services while improving system reliability and performance
- **Built core business intelligence platform** from scratch, delivering 3x faster report generation and saving 50% in hosting costs through efficient architecture design
- **Automated critical data collection processes** ensuring high-value website maintenance and business continuity, reducing manual intervention by 90%
- **Created comprehensive documentation suite** with 50+ technical guides and process documents, ensuring knowledge transfer and operational continuity

**Technologies:** Nodejs, Typescript, Redis, Vue, Nuxt, React, Vue, Nextjs, PostgreSQL, GCP, Laravel, WordPress, Wrike, etc.

#### **Lead Developer | STO Estrategias Online**

Remote | February 2015 – April 2020



Developed high-performance web services and scalable hosting solutions, progressing to Partner role with expanded technical and business responsibilities.

- **Architected and developed** enterprise-scale web services handling high-traffic loads with optimized performance and reliability
- **Optimized VPS hosting infrastructure** for maximum performance and scalability, implementing monitoring and automated scaling solutions
- **Advanced to Partner role** with expanded responsibilities including technical strategy, client relationship management, and business development
- **Implemented performance optimization strategies** resulting in improved system responsiveness and reduced server resource consumption
- **Managed stakeholder relationships** with Engineering Managers and Product teams, ensuring alignment between technical delivery and business objectives

**Technologies:** Nodejs, Typescript, Redis, Vue, Nuxt, React, Vue, Nextjs, PostgreSQL, GCP, Laravel, WordPress, Wrike, etc.

### **Web Developer | First Page Attorney LLC**

Remote | February 2013 – April 2015

- Developed custom web applications and content management solutions for legal industry clients
- Implemented responsive design and performance optimization techniques improving user engagement

### **Freelance Web Developer**

Remote | February 2012 – February 2013

- Delivered custom web development solutions for diverse client portfolio
- Established foundation in full-stack development and client relationship management

