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

Main Technical Skills	Node.js (12 yr.), TypeScript (8 yr.), Kafka (5 yr.), AWS (8 yr.), Laravel (11 yr.)
Programming Languages	TypeScript (8 yr.)
JavaScript Libraries and Tools	Electron (5 yr.), Fastify (8 yr.), Redux (8 yr.), RxJs (6 yr.)
JavaScript Frameworks	Express (10 yr.), NestJS (9 yr.), Next.js (6 yr.), Node.js (12 yr.), Nuxt (6 yr.), React (9 yr.)
PHP Frameworks	Laravel (11 yr.)
AI & Machine Learning	Neptune (3 yr.)
Java Frameworks	Spring
Databases & Management Systems / ORM	AWS DynamoDB (7 yr.), AWS ElasticSearch, MongoDB, MySQL (12 yr.), PostgreSQL (6 yr.), Redis (8 yr.), Snowflake (3 yr.)
Cloud Platforms, Services & Computing	AWS (8 yr.), CloudFlare, GCP, Vercel

Amazon Web Services	AWS CloudFront, AWS DynamoDB (7 yr.), AWS ElasticSearch
Methodologies, Paradigms and Patterns	Distributed systems, Event Sourcing (5 yr.), microservices, REST (11 yr.), serverless
Virtualization, Containers and Orchestration	Docker (10 yr.), Kubernetes
Version Control	Github Actions
SDK / API and Integrations	GraphQL (8 yr.)
Mail / Network Protocols / Data transfer	GRPC (3 yr.), WebSockets (6 yr.)
Message/Queue/ Task Brokers	Kafka (5 yr.)
Soft Skills	Leadership
Platforms	WordPress (13 yr.)
Other Technical Skills	Backend, Bun, Deno, Hono, Protobuf (5 yr.), 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 Estratagias 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