YASH RAJORIA

Software Engineer | Backend & Full-Stack | London, UK

yashrajoria@gmail.com | +44 7979 071880 | linkedin.com/in/yash-rajoria | github.com/yashrajoria | yash-rajoria.vercel.app

PROFESSIONAL SUMMARY

Backend-focused Software Engineer with 3+ years building and scaling production systems for multi-million-dollar US enterprise clients at a global digital transformation consultancy, with a promotion from Associate to Engineer on record. Technical lead and primary engineer across AI/LLM and e-commerce platforms — shipped a RAG-based image compliance system reducing processing time by 82%, and a BigCommerce marketplace integration that achieved 20+ downloads within hours of launch. Proficient in TypeScript, Node.js, Go, and cloud-native AWS architectures. Currently completing an MSc in Advanced Software Engineering at King's College London (expected Sep 2026).

CORE TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, C, C++
Backend & APIs: Node.js, REST APIs, GraphQL, gRPC, Microservices, Event-Driven Architecture, Message Queues (SQS/SNS), API Gateway, WebSockets
Frontend: React, Next.js, React Native, Redux, Tailwind CSS, Framer Motion
Cloud & DevOps: AWS (SQS, SNS, S3, DynamoDB, Secrets Manager), GCP, Docker, Kubernetes, Terraform, CI/CD Pipelines, Git, Linux
Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, BigQuery
AI / ML: LLM Integration (OpenAI, LLaMA), RAG Pipelines, Vector Embeddings, NLP, Prompt Engineering
Security: OAuth, JWT, IAM, OWASP, SQL Injection, XSS, CSRF, Secure Coding, Metasploit, SET, Maltego
Practices: System Design, Distributed Systems, Performance Optimisation, Code Review, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Engineer · Jun 2022 – Aug 2025
GSPANN Technologies · Digital Transformation & IT Services Consultancy · Promoted from Associate Engineer

AI-Powered Image Compliance Platform (ContentHubGPT)
- Architected an end-to-end RAG-based compliance pipeline — ingested user-uploaded images and compliance documents, generated vector embeddings using LLaMA, produced 10–15 contextual questions per document, and returned structured pass/fail verdicts with remediation guidance.
- Reduced compliance pipeline processing time by 82% (45 min → 8 min) by redesigning the document chunking strategy and optimising embedding generation across 10,000+ daily records.
- Engineered ContentHubGPT integration into a BigCommerce backend cron job that auto-generated SEO-optimised product descriptions and metadata across 10,000+ product records per day, contributing to a client-reported 15% uplift in sales.

BigCommerce Marketplace App
- Designed, built, and launched a BigCommerce marketplace integration as the organisation's sole BigCommerce specialist; liaised directly with the partner team and internal stakeholders, achieving 20+ downloads within hours of release.
- Authored cost-benefit analyses and infrastructure budget proposals approved by the client; served as sole technical decision-maker for all BigCommerce architecture across the engagement.

Enterprise E-Commerce Platform (Client Lead — Solo Developer)
- Owned the full delivery lifecycle solo — backend, frontend, DevOps, QA, and all production deployments — for a multi-million-dollar US retail client, earning full project autonomy from the PM.
- Refactored category taxonomy from 16,000 to ~1,900 MySQL/BigCommerce categories using a dynamic year-pool model backed by server-side caching, eliminating a critical scaling bottleneck and cutting page load times by 30%.
- Measurably improved query performance — confirmed by client and PM — via compound MySQL indexing, N+1 elimination across high-frequency catalogue endpoints, and multi-layer caching with cache-invalidation at API and browser layers.
- Boosted frontend performance by 30% via IndexedDB caching, code splitting, lazy loading, and API request chaining; containerised services with Docker and built CI/CD pipelines standardising all release practices.
- Conducted code reviews and technical interviews for candidates at higher seniority levels, demonstrating technical judgement recognised by engineering leadership.

PROJECTS

ShopSwift — Full-Stack Microservices E-Commerce Platform
Go · Gin · gRPC · Next.js · Tailwind CSS · AWS · PostgreSQL · MongoDB · DynamoDB · SQS/SNS · github.com/yashrajoria/shopswift
- Architected a 12-service microservices backend in Go (Gin) with REST and gRPC inter-service communication, designed for horizontal scalability with independent deployment and fault isolation per service.

- Implemented event-driven order processing via AWS SQS/SNS; applied polyglot persistence — PostgreSQL for transactional workloads, MongoDB for product-catalogue schemas, DynamoDB for low-latency NoSQL access.
- Enforced security best practices: IAM-based access control, AWS Secrets Manager for credentials, encrypted inter-service communication, and structured logging for production observability.
- Built an SSR-optimised storefront and admin panel in Next.js, Tailwind CSS, and Framer Motion; achieved sub-1s cold-start and LCP under 2s across 240+ Vercel deployments.

OPEN SOURCE CONTRIBUTIONS

Provara Protocol — PR #7 Merged

Docker · Python · Ed25519 · MCP Server · github.com/provara-protocol/provara-mcp

- Architected the official Docker and Docker Compose implementation for Provara — a cryptographically signed, sovereign AI agent memory MCP server — enabling reproducible, platform-agnostic deployment.
- Designed a stateless container model with read-only vault mounting and runtime-only signing-key injection via environment variables, ensuring private keys are never baked into build artefacts. PR merged: 12 commits, 171 additions.

aislop — Contributor (v0.1.2)

TypeScript · Node.js · Scoring Algorithms · github.com/heavykenny/aislop

- Implemented issue-density normalisation to make code quality scoring penalties proportional to codebase size, preventing large repositories from being unfairly penalised.

EDUCATION

MSc Advanced Software Engineering · Expected Sep 2026

King's College London

Modules: Security Testing, Big Data Technologies, Agents & Multi-Agent Systems, Software Architecture & Design, Software Measurement & Testing

Dissertation: AI-Enhanced Concept Navigation and Forum Assistance for Blended CS Education

B.Tech Computer Science | CGPA: 9.07 / 10 · 2018 – 2022

SRM Institute of Science & Technology

ADDITIONAL EXPERIENCE

Teaching Assistant — Security Testing · Jan 2026 – Present

King's College London

- Facilitate postgraduate security testing labs for ~30 students across 3 cohorts, covering SQL Injection, XSS, CSRF, Metasploit exploitation, and social engineering; guide students through vulnerability identification, exploitation, and secure remediation.
- Assess lab submissions and deliver detailed technical feedback on vulnerability analysis, exploitation methodology, and remediation quality.

CERTIFICATIONS

BigCommerce Certified Developer & Architect (2024) **Contentstack Certified Developer** (2022)