

SYED MUHAMMAD HUSSAIN NAQVI

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PROFESSIONAL SUMMARY

Computer Science with Management graduate focused on full-stack engineering, AI-enabled products, and cloud-native deployment. Experienced with Next.js, TypeScript, FastAPI, PostgreSQL, Docker, Kubernetes, AWS, CI/CD, and applied AI workflows across job search, education, and marketplace platforms.

EDUCATION

Queen Mary University of London August 2023 - July 2026
Computer Science with Management

The Lyceum School August 2020 - July 2022
A Levels (Mathematics, Physics, Chemistry, Computer Science)

PROFESSIONAL EXPERIENCE

DataCrumbs June 2025 - July 2025
AI Intern *Karachi, Pakistan*

- Led solo end-to-end development of a Google Classroom competitor across 22+ feature phases (OAuth, classroom management, grading, real-time notifications, analytics, CI/CD). Stack: Next.js 14, PostgreSQL (Prisma), NextAuth.js.
- Built and deployed an AI-powered HR chatbot using FastAPI, LangChain, and FAISS, migrating legacy Excel data to a cloud-hosted SQL database.
- Designed numerous customer-facing websites and contributed to a conversational AI voicebot automating inbound customer calls.

Axis Tutions November 2023 - April 2025
Teacher *London, UK*

- Taught GCSE Mathematics to multiple groups of 10–15 students across two separate terms, designing tailored lesson plans and exam-focused practice sessions to strengthen core concepts and improve student performance.

Idenfo August 2024 - October 2024
Design Intern *London, UK*

- Built Ping Up Enterprise's website end-to-end with a 3-person team, from Figma prototype to live deployment using HTML, CSS, JavaScript, and Firebase.
- Conducted industry benchmarking to inform competency framework design and contributed to strategic planning sessions using design thinking methodologies.

PROJECTS & OUTSIDE EXPERIENCE

EduNexus — AI-Powered Adaptive Learning Platform

- Built a full-stack adaptive learning platform for teachers and students, combining classroom management, AI lesson generation, adaptive quizzes, gamification, analytics dashboards, and role-based learning workflows. Developed the backend with FastAPI, PostgreSQL, SQLAlchemy, Alembic migrations, Pydantic schemas, JWT authentication, and a layered service/repository architecture for maintainable API development.
- Integrated Google Gemini with OpenAI fallback to generate structured lessons, quizzes, flashcards, and concept graphs from teacher prompts, classroom syllabus context, and AI-assisted content workflows.
- Implemented student learning features including XP, badges, streaks, leaderboards, quiz attempts, confidence ratings, reasoning capture, post-quiz reflections, open learner model dashboards, concept mastery tracking, and blind-spot detection.
- Technologies: Next.js, FastAPI, PostgreSQL, Google Gemini, TailwindCSS

Bamboo — Startup Investment Marketplace

- Built a two-sided founder/investor marketplace with role-based onboarding, pitch discovery, pitch detail pages, founder dashboards, investor portfolios, watchlists, investment flows, and shared TypeScript types for web/mobile architecture.
- Implemented pitch creation and monetisation workflows including video uploads, document uploads, listing -fee payments, verified badge applications, real-time funding progress, Firestore persistence, and Firebase Storage-backed media handling.
- Integrated Stripe PaymentIntents, Elements, webhooks, refunds, receipt emails, payment audit records, admin moderation, reported-pitch handling, verified badge review, Firebase security rules, and Sentry-backed launch-readiness checks.
- Technologies: Next.js, TypeScript, Firebase, Firestore, Firebase Storage, Stripe, Expo

JobHunter — Cloud-Native UK Visa Sponsor Finder & Job Tracker

- Built and productionised a full -stack job-search platform for UK international graduates, combining the gov.uk Skilled Worker sponsor register, live role feeds, visa -aware employer matching, Kanban tracking, analytics, profile autofill, and browser -extension support. Implemented authenticated multi-user access with Google OAuth/Auth.js, per-user boards, scoped API routes, bearer-token extension auth, and secure cross-origin access for profile/application endpoints.
- Designed a PostgreSQL -backed sponsor registry and weekly ingest pipeline with source provenance, cleaned company names, careers-link preloading, live gov.uk fallback, and role-based matching from real ATS job feeds.
- Containerised and deployed the app using Docker, Kubernetes, AWS EKS, ECR, RDS PostgreSQL, S3, IAM, CloudWatch, GitHub Actions CI/CD, and Terraform, including health checks, Secrets, CronJobs, monitoring, rollback, and cost -controlled teardown workflows.
- Technologies: Next.js, TypeScript, Prisma, PostgreSQL, Docker, Kubernetes, AWS, Terraform

SKILLS

Skills: TypeScript, JavaScript, Python, Java, C++, SQL, HTML, CSS, React.js, Next.js, FastAPI, Node.js, REST APIs, TailwindCSS, Prisma, SQLAlchemy, Pydantic, AWS, Docker, Kubernetes, Amazon EKS, Amazon ECR, Amazon RDS, Amazon S3, Terraform, GitHub Actions, CI/CD, Vercel, PostgreSQL, Firestore, SQLite, Firebase Storage, Data modeling, Data pipelines, Google Gemini, OpenAI API, LangChain, FAISS, Retrieval-augmented generation (RAG), Prompt engineering, Stripe, Firebase Authentication, Google OAuth, Git, GitHub, Vitest, Playwright, pytest, Sentry, Figma, Chrome Extension Manifest V3, OAuth, JWT authentication, Role-based access control, Real-time notifications, Analytics dashboards, Adaptive learning systems, Gamification, Payment processing, Webhooks, Firebase security rules, Cloud-native deployment, Kubernetes deployments, Database migrations, Google Auth.js, NextAuth.js, Google Classroom API, Conversational AI, Voicebot development, AI-assisted content generation, Natural language processing, Information retrieval, Kanban, Browser extension development, Health checks, Monitoring, Rollback strategies, Cost optimization, API development, Layered architecture, Service-repository architecture, Design thinking, Strategic planning, Industry benchmarking, Lesson planning, Exam preparation