Zubair Khalid

Manchester, UK | +44 07859 010112 | zubairkhalidce@gmail.com | dearzubair.dev

Legally entitled to work in the UK, no sponsorship required.

Full-Stack Software Engineer with 4+ years' experience delivering scalable SaaS products. Specialises in TypeScript, Node.js, React/Next.js, PostgreSQL, REST API design, and LLM integrations. Streamlined CI/CD pipelines with Docker and GitHub Actions; experienced across AWS, GCP, and DigitalOcean. Led cross-functional teams and lifted developer productivity through mentorship and code quality reviews.

Skills

Core: TypeScript, Node.js, React, Next.js, Express, NestJS, Tailwind CSS, JavaScript, Vue.js, Nuxt, REST APIs
Libraries: Zod, Yup, Lodash, Winston, Axios, Day.js, Passport.js
Database & Caching: PostgreSQL, MongoDB, Redis, MySQL, SQLite, TypeORM, Drizzle ORM, Mongoose
Cloud & DevOps: Docker, GitHub Actions, CI/CD, Nginx, AWS, GCP, DigitalOcean, Firebase
Job Scheduling: BullMQ, Hatchet.run, Agenda
Authentication & Security: OAuth 2, JWT, Sessions, Cookies, AWS KMS, Firebase Auth, OpenSSL
Testing & Quality: Vitest, Mocha/Chai, Jest, Code Reviews, Lint
Monitoring & Tracing: Sentry, PostHog
AI: LangChain, LangGraph, OpenAI Agents SDK, OpenAI/Anthropic/Gemini APIs
Payments: Stripe, PayPal

Experience

Full-Stack Developer | Hulee LTD, Salford**,** Greater Manchester, UK   *Oct 2025 – Dec 2025*

Role ended due to company-wide downsizing and financial restructuring.

- Integrated Xero OAuth2 authentication and payroll APIs into the shift management platform, enabling automated employee payroll syncing and secure account linking using Node.js, Express, MongoDB and Nuxt.
- Implemented a centralised logging and error monitoring layer using Winston and Sentry, and migrated services to adopt it.
- Delivered end-to-end feature development, designing REST APIs in Express, building Vue.js interfaces, and writing Jest unit tests to improve reliability and test coverage.

Senior Full-Stack Engineer (Contract) | Sage Studios AI (via Digitalux), Remote   *Aug 2024 – Jul 2025*

Contracted through Digitalux to deliver core engineering work for Sage Studios AI.

- Led the delivery of an event-driven no-code platform for AI workflows using TypeScript, React, Node.js, Express, LangGraph and PostgreSQL.
- Developed type-safe LLM tools using TypeScript, Zod, and LangChain to bridge LLMs with DeFi & analytics platforms.
- Accelerated development builds by up to 60x through the integration of just-in-time (JIT) TypeScript compilation, eliminating development bottlenecks.
- Provisioned DigitalOcean infra, containerised services using Docker, and added CI/CD pipelines with GitHub Actions, cutting deployment time to under 20 minutes.
- Shipped a workflow versioning feature, preventing destructive edits and improving UX.
- Closed 100+ GitHub issues (bug fixes & feature requests) through cross-functional collaboration.
- Implemented maker-checker approval flow for high-risk actions, reducing erroneous auto-executions by LLMs.
- Refactored LLM tool integrations, raising tool-call accuracy from ~40% to 80%+ via prompt tuning, typed schemas, and error handling.
- Implemented authentication flow using Google/GitHub OAuth, and TOTP MFA; secured backend APIs via JWT token verification.

Full-Stack Freelancer | Remote   *May 2023 - Aug 2024*

- Developed eBay order fulfillment system using Next.js, Node.js, and Firebase, deployed to Vercel serverless infrastructure, enabling over £10,000 in client sales.
- Built a Progressive Web App (PWA) in React for mosque discovery in the UK, integrated with .NET REST APIs, improving access to local prayer data and serving 500+ monthly organic users.
- Developed a serverless backend for a fitness app using Firestore, TypeScript, and Cloud Run on GCP for workout tracking and user management.
- Developed a Next.js web app for an online retail business to calculate profits from $30,000+ in monthly sales by processing Excel sheets with SheetJS library and managing subscriptions using PayPal API.

Technical Team Lead | Blockchain Security Lab, LHR, Pakistan   *Sept 2021 - Jan 2023*

- Led the development of decentralised SSL certificate issuance platform using Solidity, Geth, EVM, Node.js, Next.js, and OpenSSL, enabling cryptographically verifiable, on-chain SSL certificate validation.
- Deployed Solidity smart contracts on Polygon PoS and TypeScript microservices on AWS EC2, delivering a secure, verifiable domain validation system and securing a grant from Polygon DAO.
- Contributed to the extraction and analysis of 23,000+ Ethereum smart contracts for a research paper on storage state and smart contract behavior, published in *ACM Transactions on Software Engineering and Methodology*.
- Co-delivered a featured talk on *"Reimagining PKI with Blockchain"* at the IEEE 2nd International Conference on Cyberwarfare & Cybersecurity in Islamabad.
- Co-organised a technical workshop at Information Technology University Pakistan and led hands-on Solidity programming training sessions for students and industry professionals.

Education

- **MSc in Data Science** (CGPA 3.73 / 4) | ITU, Lahore, Pakistan   *Sept 2020 - Oct 2022*
- **BSc in Computer Engineering** (CGPA 3.69 / 4) | UET, Taxila, Pakistan   *Oct 2015 - Aug 2019*