

UMER HASHIM QURESHI

Senior Software Engineer | Full Stack Developer

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 London, England, UK

PROFESSIONAL SUMMARY

Full Stack Developer | Web3 Developer | Software Engineer with 6+ years of experience building scalable, high-performance applications across AI/ML, blockchain, and cloud-native architectures. Proven track record of leading development teams, architecting solutions on AWS and GCP, and delivering production-ready applications using modern technologies. Expert in React, Next.js, Node.js, TypeScript, and blockchain platforms. Successfully built 4 companies from scratch and managed teams using Agile methodologies. Specialized in AI-powered applications with LangChain, GPT-4, and vector databases, as well as DeFi protocols and smart contract development.

PROFESSIONAL EXPERIENCE

Software Engineer

ExpansifyAI

2024 - Present

- Led development team managing MERN stack projects, overseeing code quality and delivery timelines using Jira and Linear
- Built AI-powered applications from scratch using Next.js 14, tRPC, Prisma ORM, and TypeScript
- Integrated OpenAI GPT-4, Claude, and Anthropic APIs to build intelligent chatbots and AI features
- Developed LLM applications using LangChain, vector databases (Pinecone, Weaviate), and RAG patterns
- Managed AWS infrastructure (ECS, Lambda, RDS, S3, CloudFront) and implemented CI/CD with GitHub Actions
- Orchestrated containerized microservices using AWS EKS (Kubernetes) with CloudWatch and Datadog monitoring
- Built real-time AI assistants with streaming responses using Server-Sent Events (SSE) and WebSockets
- Developed reusable component libraries with Storybook and design systems using Tailwind CSS and Radix UI

- Integrated Stripe, PayPal, and Plaid APIs for payment processing and financial data aggregation
- Implemented GraphQL APIs with Apollo Server and optimized PostgreSQL queries with indexing
- Improved team productivity by 40% through code reviews and enforcing standards with ESLint and Prettier

Senior Software Engineer

SenaryBits

2020 - 2022

- Managed MERN/MENN stack developers using Agile methodologies and Scrum framework with Azure DevOps
- Built high-performance applications with Next.js, Express.js, Vue.js 3, and MongoDB Atlas with Mongoose ODM
- Developed Python microservices using FastAPI and Flask, integrated with Node.js backends via REST and gRPC
- Deployed applications on GCP using Cloud Run, Cloud Functions, Cloud SQL, and managed AWS infrastructure
- Specialized in SaaS and blockchain development using Ethereum, Polygon, and IPFS for decentralized storage
- Implemented error tracking with Sentry, LogRocket, and Google Cloud Monitoring
- Optimized MongoDB aggregation pipelines and implemented Redis caching, reducing API response times by 60%
- Configured GCP Pub/Sub for event-driven architecture and used BigQuery for analytics
- Mentored 5+ junior developers on clean code principles, SOLID design patterns, and TDD practices
- Led CI/CD pipelines with Jenkins, Google Cloud Build, and Docker Compose for automated deployment
- Developed comprehensive test suites using Jest, Pytest, React Testing Library, and Cypress

Software Engineer

ColorElephant

2020 - 2021

- Integrated RESTful APIs, GraphQL endpoints, and third-party SDKs including Twilio, SendGrid, and DigitalOcean
- Built 3D simulation systems using Three.js and WebGL for interactive product visualization
- Deployed applications on DigitalOcean with automated scaling and managed CI/CD using GitLab CI/CD
- Configured DigitalOcean Managed Databases (PostgreSQL, Redis) and implemented backup strategies
- Implemented authentication flows with Auth0 and JWT tokens ensuring secure session management
- Optimized bundle sizes using Webpack code-splitting and lazy loading, reducing load time by 45%

- Configured DigitalOcean Monitoring and Alerts for proactive infrastructure management

Software Engineer

Contractual (Freelance)

2017 - 2022

- Delivered full-stack solutions for multiple clients using React, Vue.js, Angular, and modern JavaScript (ES6+)
- Gained proficiency in Python (Django, Flask), PHP (Laravel), and Ruby (Rails) for full-stack versatility
- Implemented progressive web apps (PWAs) with service workers and offline-first strategies using Workbox
- Integrated modern build tools including Vite, Turbopack, and esbuild for faster development workflows
- Conducted A/B testing with Google Optimize and Hotjar to inform feature development
- Implemented accessibility standards (WCAG 2.1) and tested with axe DevTools and Lighthouse audits

Front-End Developer

FTSITS

2020

- Developed responsive websites using React with Hooks, WordPress with custom themes, and CodeIgniter MVC
- Ensured cross-browser compatibility with BrowserStack and optimized performance using Lighthouse
- Implemented SEO best practices with structured data and integrated Google Analytics and Tag Manager
- Built custom WordPress plugins and integrated WooCommerce for e-commerce functionality

EDUCATION

MSc Computer Science

University of East London

2023 - 2024

- Grade: First Class Honour/Distinction
- Specialized in advanced software engineering, AI/ML, and distributed systems

BS Computer Science

COMSATS University

2017 - 2021

- Grade: 74%
- Strong foundation in computer science fundamentals, algorithms, and software development

PROFESSIONAL & EDUCATIONAL ACHIEVEMENTS

- Built 4 companies from scratch
- Mastered 10+ technologies through continuous learning and hands-on project experience
- Led development teams and mentored 5+ junior developers
- Learned 50+ successful modules across AI, Web3, VR, and full-stack development

TECHNICAL SKILLS

- React.js
- TypeScript
- React Native
- Angular
- Django
- FastAPI
- GraphQL
- PostgreSQL
- Redis
- AWS
- Docker
- CI/CD
- OpenAI GPT-4
- TensorFlow.js
- Web3.js
- Three.js
- Tailwind CSS
- Jest
- Sentry
- Jira
- Next.js
- Node.js
- Vue.js
- Python
- Flask
- Express.js
- tRPC
- MongoDB
- Prisma
- GCP
- Kubernetes
- GitHub Actions
- LangChain
- Solidity
- Hardhat
- WebGL
- Framer Motion
- Cypress
- Datadog

KEY PROJECTS

Coignitive Agent

Intelligent AI agent platform with LangChain, RAG patterns, and vector databases.

Tech: LangChain, GPT-4, Pinecone, Next.js, tRPC, Prisma

Senary Finance

Asia's first comprehensive DeFi ecosystem with DEX, wallets, staking, and yield farming.

Tech: Solidity, Web3.js, React, Typescript, Node.js, Ethereum, BSC

For all projects, visit: <https://umerhashimqureshi.com>

LANGUAGES

English

Fluent

REFERENCES

Available upon request.