M AHSAN GHAFOOR

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 github.com/ahsanghafoor | Portfolio

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 3+ years of experience building and scaling web applications, AI-driven features, and cloud-based systems. Strong background in the MERN stack, AWS, real-time communication, and RAG-based AI solutions. Comfortable taking products from idea to production, with a focus on clean code, performance, and practical user experience.

PROFESSIONAL EXPERIENCE

Software Engineer   **May 2025 – Present**
Grandeur   *Remote*

- Built **OtherMe**, an AI-powered platform where users connect their Twitter account, define their personality during onboarding, and select related or competitor accounts. The system generates tweets based on this context, with usage limits enforced according to the user's pricing plan.
- Engineered **Interchanger** public API with location-based tax calculation engine, handling postal code verification across multiple states and provide ease to users to calculate transaction fee on any region.
- Built **Bridge** voice communication platform with Twilio integration, implementing secure PIN authentication, agent routing logic, and real-time speech-to-text transcription with 95% accuracy for compliance recording
- Developed **RAG (Retrieval-Augmented Generation)** system utilizing vector embeddings and semantic chunking for intelligent document querying, reducing information retrieval time to generate specific information or to understand documents easily.
- Contributed to an experimental **Agentic commerce** platform by building AI-driven workflows that handle end-to-end e-commerce flows, including product selection, recommendations, checkout, and payment processing.

MERN Stack Developer   **December 2023 – June 2025**
TechLeadz   *Lahore, Pakistan*

- Collaborated with **Mozilla Firefox** ads team on large-scale ad delivery platform using React and Django/Python backend with PostgreSQL
- Designed and deployed **EventVibe** event management platform with Next.js and TanStack Query, featuring dynamic event listings, photo gallery with lazy loading, blog CMS, and Google Analytics integration
- Built **DJ Management** system with automated DJ/media assignment, DJ confirmations, Instagram Accounts tracking for event promotion, and comprehensive event record management. Moreover, also implemented promotional Email sending service to 50,000+ emails at a time using Amazon SES and save status of each email using SNS.

MERN Stack Developer   **January 2023 – December 2023**
Softtik Technologies   *Lahore, Pakistan*

- Developed backend infrastructure and admin panel for **Modern Poker Club** with JWT authentication, game state management APIs, and Socket.io integration enabling real-time gameplay for 1000+ concurrent users
- Built **Metamart Unity Game** backend with comprehensive RESTful API architecture, secure OAuth authentication, and admin dashboard featuring real-time game analytics, player statistics, and revenue tracking
- Created full-stack **E-commerce platform** with secure user authentication, advanced search with Elasticsearch, shopping cart with Redis caching, payment gateway integration (Stripe), and detailed product pages

TECHNICAL SKILLS

Languages & Core: JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3/SASS/SCSS
Frontend Technologies: Next.js, React.js, Redux, TanStack Query, Material-UI, Bootstrap, Tailwind CSS, Sass
Backend & APIs: Node.js, Express.js, Django, RESTful APIs, GraphQL, Socket.io, Twilio, JWT, OAuth
Databases: MongoDB, MySQL, PostgreSQL, DynamoDB
AWS Cloud Services: EC2, S3, SES, ECS, Lambda, SQS, SNS, DynamoDB, CloudWatch, IAM
AI/ML & Data: RAG Systems, LangChain, OpenAI API, Vector Embeddings, Document Processing
DevOps & Tools: Git/GitHub, Docker, CI/CD, Postman, Google Analytics, Agile/Scrum, System Design

EDUCATION

Bachelor of Information Technology   **2018 – 2022**
University of Punjab   *Lahore, Pakistan*

Intermediate in Computer Science (Pre-Engineering)   **2016 – 2018**
Punjab College Depalpur   *Okara, Pakistan*