





Muhammad Azan Afzal

(Sr.Software Engineer)

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Riyadh | Transferable Iqama

Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, HTML5, CSS3/SCSS.
- **Frontend Development:** React, Next.js, Angular, Redux (Thunk/Saga), React-Query, Material UI, shadcn, devExpress.
- **Backend & API:** Node.js (Express/Fastify), Python (FastAPI), REST, GraphQL, gRPC, Microservices.
- **Cloud & DevOps:** AWS (EC2, S3, EKS, CloudFront), Docker, Kubernetes, CI/CD (GitHub Actions), Nginx.
- **Databases & Caching:** MongoDB, PostgreSQL, MySQL, Redis, Prisma, Firebase.
- **System Architecture:** System Design, Horizontal/Vertical Scaling, RabbitMQ, Kafka, WebRTC, WebSockets.
- **Security & Testing:** OAuth, JWT, Jest, Cypress, Rate Limiting, DDoS Protection.
- **Monitoring & Tools:** Sentry, Prometheus, Grafana, Jira, Postman, Git.

Experience

Software Engineer	Rakeez Solutions (Riyadh, Saudi Arabia)	08/2025 - 12/2025
<ul style="list-style-type: none">• Led the end-to-end development of a gamification dashboard from concept to production, utilizing a Fastify (Node.js) backend and React frontend to deliver a scalable, interactive platform.• Implemented real-time notifications with Socket.IO, secure media storage with AWS S3, and optimized frontend performance for responsive user engagement.• Established CI/CD pipelines with GitHub Actions, deployed on AWS EC2, and ensured maintainable, production-ready architecture with automated builds and monitoring.		
Software Engineer	Binary Integrated Solutions (Riyadh, Saudi Arabia)	04/2025 - 08/2025
<ul style="list-style-type: none">• Integrated a React.js frontend with an existing .NET backend for a Facility Management System, ensuring reliable and efficient API consumption.• Designed and implemented a dynamic, configurable KPI dashboard using shadcn charts, enabling users to visualize and manage facility KPIs based on custom criteria.• Implemented type-safe API integration using Orval-generated client types aligned with Swagger (OpenAPI) specifications, and supported AWS-based deployments.		
Software Engineer	Gulzar Soft (Gujrat, Pakistan)	01/2024 - 03/2025
<ul style="list-style-type: none">• Led the design and development of a scalable, cloud-native video streaming platform at GulzarSoft using React.js, Node.js (Express.js), AWS S3, AWS CloudFront, and AWS SDK, ensuring secure video uploads, storage, and global content delivery via edge caching.• Integrated PostgreSQL with Drizzle ORM, leveraging type-safe query building, schema migrations, and relational data modeling to support performant and maintainable backend services.• Employed CI/CD pipelines, GitHub Actions, and Docker for containerization and automated deployments; followed OWASP security best practices and ensured platform scalability under high load.		
Full Stack Engineer	VisionBird Technologies (Gujrat, Pakistan)	01/2023 – 12/2024
<ul style="list-style-type: none">• Designed and developed a full-featured HR Management System at Visionbird using the MERN stack (MongoDB, Express.js, React.js, Node.js), enabling efficient employee onboarding, performance tracking, payroll processing, and attendance management.		

- Built modular and reusable UI components with **React.js** and **Material-UI**, incorporating responsive design principles and form validation for a seamless user experience across devices.
- Deployed the application on **AWS EC2** with **Nginx** as a reverse proxy, and configured **MongoDB Atlas** for scalable and secure cloud-based data storage.
- Integrated **RESTful APIs**, real-time updates using **WebSockets**, and **cron jobs** for automated notifications and payroll triggers; monitored application health using **PM2** and **CloudWatch**.

FrontEnd Developer

Tushmit Group of Industries
(Gujrat, Pakistan)

02/2022 – 01/2023

- Developed the frontend of a modular **ERP system** using **Angular**, focusing on architecting complex, dynamic, and reusable **form-driven modules** with **Reactive Forms**, **FormBuilder**, and **custom validators** to handle intricate business logic and conditional workflows.
- Integrated seamlessly with **RESTful APIs** and third-party services using **HttpClient**, **RxJS**, and **interceptors**, ensuring efficient data fetching, caching, and error handling.
- Implemented a highly responsive and user-friendly interface using **Angular Material**, **SCSS**, and **flex layout**, optimized for performance and cross-device compatibility.
- Followed **component-driven development**, lazy loading, and modular architecture to ensure scalability and maintain a high-performing codebase aligned with enterprise standards.

Full Stack Engineer

CyberSillo
(Gujrat, Pakistan)

01/2021 – 12/2022

- Developed a responsive **admin dashboard** for a **web defacement monitoring system** using **Angular** and **Angular Material**, delivering real-time alerts, insights, and administrative controls.
- Integrated **WebSockets** and **RxJS** for live threat updates and notifications; implemented **data visualizations** with **Chart.js** and **ngx-charts** to display defacement trends and risk metrics.
- Focused on **intuitive UI/UX**, reusable components, and **modular architecture**, enhancing operational efficiency and scalability.

Final Year Project

- Designed and developed a **Real Estate Virtual Tour Web Application** using the **MERN stack**, enabling users to explore properties interactively in 360° views.
- Integrated **Panolens.js** and **Marzipano** libraries to create immersive, multi-scene **virtual tours** with hotspots, navigation controls, and panoramic transitions.
- Implemented **secure authentication**, property management, and dynamic tour creation features using **Node.js**, **Express.js**, and **MongoDB**.
- Developed a responsive and intuitive **React.js** frontend with rich media support and smooth UI interactions for an engaging user experience.

Education

Bachelor of Computer Science

Pir Mehr Ali Shah University

- Major in Computer Science – 3.63 CGPA

Projects

Real-time Dashboard for Data Monitoring, E-commerce Platform with Microservices Architecture, Real-time Collaborative Learning Platform, Microservices Architecture with API Gateway and Security, Progressive Web App (PWA) with Offline Functionality and Advanced UX, Serverless Architecture with AWS Lambda and API Gateway, AI-Powered Chatbot for Customer Support, Scalable API and Background Worker System, Enterprise E2E Product Development and Monitoring and many more ...