

AFAQ JAVED

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Youtube](#) | [StackOverFlow](#)

Location: Karachi, Pakistan

Email: afaqjavedofficial@gmail.com

Mobile: +923322615528

FULL STACK DEVELOPER

A highly experienced Senior Full Stack Developer with over 6 years of expertise in designing scale able, optimized solutions and system architecture. Proficient in AWS cloud services, IoT, and web technologies, with a proven track record of leading agile teams to deliver efficient, secure, and highly available solutions. Adept at developing robust systems from concept to implementation, with a strong focus on performance optimization, cloud-native architecture, and micro services.

TECHNICAL SKILLS

Languages	: TypeScript, JavaScript, Java, Python, C/C++
Backend	: NestJS, ExpressJS, KoaJS, Fastify, Spring Boot, Quarkus, Micronaut,
Frontend	: React, Angular, Node.js, TailwindCSS, Bootstrap, Ant Design etc
Databases	: MongoDB, PostgreSQL, DynamoDB, MySQL, Redis (In memory)
System Design	: MicroServices, Event-Driven Architecture, Serverless
Cloud	: AWS EC2, Message Queues, S3, Lambda, Jenkins, Nginx, Docker, Kubernetes, GithubActions, CerBot SSL
Dev Tools	: JetBrains, Visual Studio Code, Balsamiq, Eraser.io ,etc
Project-Management	: Jira, Linear, Trello, Agile Scrum, Kanban, Git
Hardware	: PCB Designing, ExpressIf Line of MCU's , Firmware Development using Arduino
Others	: OAuth , Third-Party Integrations, RestApi , GraphQL

EXPERIENCE

Cheif Technical Officer

SeamlessIdeas

Feb 2024 – Present

Remote – Manchester, United Kingdom

- Managed development teams to deliver scalable, cloud-based solutions for clients in the UK and Canada.
- Led the implementation of serverless architectures using AWS Lambda, resulting in significant cost savings and reduced server management overhead.
- Developed and maintained APIs, implemented OAuth authentication systems, and integrated third-party services.
- Designed optimized CI/CD pipelines using Docker, Kubernetes, and Jenkins, resulting in faster and more reliable releases.

Full Stack Developer

Binary Bitz

Dec 2021 – Aug 2023

Remote – Penza, Russia

- Lead the development of highly optimized, scale able web applications and backend services using AWS.
- Architected and implemented microservices-based solutions with AWS Lambda, S3, API Gateway, and DynamoDB for fault-tolerant, high-availability applications.
- Collaborated closely with stakeholders to design system solutions that support over 1000 of concurrent users, optimizing for both cost and performance.
- Worked with agile teams to develop, deploy, and maintain IoT-enabled systems using MQTT, Nodejs
- Mentored junior developers and conducted code reviews to ensure best practices in system design and software architecture.

Software Engineer

Conure IT Services

Aug 2019 – Nov 2021

Karachi, Pakistan

- Developed full-stack web applications using TypeScript, Node.js, and React.
- Collaborated with cross-functional teams to design and implement scalable backend solutions with AWS and PostgreSQL.
- Introduced code optimization techniques, reducing execution times by 30 percent on critical APIs.

FAST NUCES

Bachelor of Science in Computer Science

Karachi, Pakistan

Jul 2015 – Aug 2019

PROJECTS

IoT Education Bot (Stem Education) *BLE, Wifi, Esp32, Arduino, C++, React, NestJs, Postgres, MQTT, AWS S3, AWS IOT*

- Developed an educational bot using Esp32 WRoom-32 custom PCB, Node.js and MQTT integrating it with AWS IoT for remote monitoring and control.
- Implemented efficient data streaming and processing, ensuring real-time communication and scalability.
- Used AWS S3 for Firmware management and over the air updates
- Deployed an real time analytics dashboard using Web sockets or AWS message queues
- Designed and Deployed mobile apps on Google Play and app store communicating using BLE with Bot.

ParkSmart *RabbitMQ, Lorawan Server, Angluar, SpringBoot, Spring Sockets, MongoDB, Postgres Git*

- Designed and developed a scalable architecture integrating LoRaWAN server with RabbitMQ for seamless communication between IoT parking sensors and the backend system.
- Implemented real-time data communication using Spring Sockets to provide live parking availability updates to users.
- Led the development of the frontend using Angular, ensuring a responsive and user-friendly interface for users to find and reserve parking spots in real-time.
- Worked closely with hardware engineers to integrate the system with low-power IoT devices, optimizing the solution for urban environments.

BinWise *React, NestJs, Cloud Functions, SocketIO, MongoDB, Postgres Git, SendGrid, Twilio*

- Utilized NestJS to build a robust and scalable backend, managing real-time data from IoT-enabled bins and storing this data in MongoDB for efficient tracking and monitoring.
- Leveraged Cloud Functions for event-driven data processing and automation, ensuring a highly responsive and scalable system that dynamically handles incoming data.
- Designed and implemented an effective route calculation algorithm to optimize bin collection routes for city management, ensuring efficient coverage of all bins and reducing operational costs and time.
- Integrated SendGrid for automated email notifications to city authorities and maintenance teams regarding bin statuses.
- Used Twilio for SMS notifications to alert users or authorities in real-time about critical bin status updates, ensuring timely action.

Asset Tracking *GSM, Angular, SpringBoot, RabbitMQ, Spring Sockets, MongoDB, Postgres, GeoFencing Google Maps*

- Developed a comprehensive asset tracking system using Angular for the frontend and Spring Boot for the backend, ensuring a responsive and scalable application for real-time asset management.
- Implemented RabbitMQ for reliable message queuing and communication between different components of the system.
- Integrated GSM technology for tracking asset locations via mobile networks, ensuring accurate and real-time asset tracking even in remote areas.
- Implemented GeoFencing using Google Maps to create virtual boundaries around specific areas, triggering alerts when assets enter or exit these predefined zones.
- Leveraged real-time data streaming and updates to track asset movements and status changes, providing instant visibility and alerts to users.

Night And Day Appointment Booking *React, NestJS, Prisma, Square Pay, BullMQ, SendGrid, Twilio Sms, Postgres*

- Architected and developed a comprehensive appointment booking system using React for the frontend and NestJS for the backend, leveraging Prisma ORM to efficiently manage interactions with a PostgreSQL database.

- Implemented real-time PDF report generation using JS Reports, providing users and administrators with up-to-date booking summaries and insights at any time.
- Integrated Square Pay for seamless and secure payment processing, ensuring a smooth transaction flow for users booking appointments.
- Utilized BullMQ for handling background jobs such as appointment reminders and notifications, ensuring timely execution and task scheduling.
- Deployed the project using Docker containers on AWS EC2 instances, with an Nginx reverse proxy to handle load balancing and improve scalability.
- Mentored junior developers, conducted code reviews, and managed the project's lifecycle from initial concept through production deployment.
- Integrated SendGrid for email notifications and Twilio for SMS alerts, keeping users informed about their bookings and appointments.

Museum Challenges

NestJs, React, Prisma, Postgres Git

- Developed a comprehensive e-learning platform using NestJS for the backend and React for the frontend, enabling dynamic content creation and interactive learning experiences for museum visitors.
- Implemented a flexible content management system that allows for the dynamic creation and management of educational courses, ensuring a customizable learning journey for users.
- Leveraged Nodejs clustering to optimize the application's performance and scalability, ensuring the platform can handle high traffic and concurrent users efficiently.
- Designed and implemented a hybrid database architecture, utilizing PostgreSQL for relational data, DynamoDB for high-performance, non-relational data storage, and Redis for caching frequently accessed data, improving performance and scalability.

LANGUAGES

- English (Fluent)
- Hindi Urdu (Native)