

Asad Ahmad

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(UTC+5) — Available for overlap with EU & US EST teams

SUMMARY

Full Stack Engineer with 5 years building SaaS platforms end-to-end. Strong backend focus in NestJS, GraphQL, TypeScript, and AWS, with production frontend experience in React and Next.js. Currently leading an engineering team at a product company, owning architecture decisions and client-facing delivery.

SKILLS

Backend: Node.js, NestJS, Express.js, GraphQL, REST APIs, TypeScript

Frontend: React.js, Next.js, Electron.js, Tailwind CSS

Cloud & DevOps: AWS (EC2, RDS, S3, SNS, SES, CloudWatch, Lambda, Secrets Manager), Vercel, Docker, Nginx, CI/CD

Databases: PostgreSQL, MongoDB, MySQL, Redis, Firebase

Realtime Systems: WebSockets, Socket.io, GraphQL Subscriptions, WebRTC

Security: JWT, OAuth 2.0, RBAC, API Security

Testing & Tooling: Jest, Git, GitHub Actions, Postman

AI & LLMs: OpenAI API, GPT Integration, Prompt Engineering

EXPERIENCE

Sr. Software Engineer

Feb 2025 – Present

Spadasoft

Lahore, Punjab, Pakistan

- Led a team of 3–4 engineers driving end-to-end SaaS feature delivery, owning architecture decisions, task planning, and client communication across cross-functional stakeholders.
- Designed core **GraphQL backend architecture using NestJS** with **real-time subscriptions** for live notifications and activity tracking, reducing response latency by **15%** through API and query optimization.
- Architected a **multi-tenant auth system** from scratch using **JWT and RBAC**, supporting granular permission layers across user roles in a production SaaS platform.
- Designed cloud-native deployment on **AWS** (EC2, RDS, S3, SNS, SES, CloudWatch, Secrets Manager) and Vercel, achieving **99.9% uptime** through improved CI/CD pipelines and secure infrastructure management.

Sr. Software Engineer

April 2023 – Jan 2025

Zweidevs

Lahore, Punjab, Pakistan

- Built and maintained **Node.js/Express REST APIs** with **MongoDB**, designing schemas and handling server-side business logic for a cross-platform **Electron** desktop application.
- Implemented **Stripe webhook** handling server-side, managing payment lifecycle events, transaction validation, and failure recovery flows in production.
- Developed real-time server-side and client-side features using **Socket.io** and integrated **Firebase** backend services and **GPT APIs** to power AI-driven features across the desktop application.
- Built production React frontend applications and Highcharts analytics dashboards, improving **Lighthouse performance score from 60 to 85** and reducing **page size from 1.5MB to 700KB (53% reduction)** through lazy loading and asset optimization.

Software Engineer

July 2021 – March 2023

eBridge Technologies

Lahore, Punjab, Pakistan

- Designed and built **Node.js/Express REST APIs** covering authentication, authorization, and core CRUD operations, improving response performance by **30%**.
- Designed **PostgreSQL** database schemas and wrote optimized queries for production applications, ensuring data integrity and query performance at scale.

- Integrated **Google APIs** server-side, handling authentication flows, data fetching, and third-party service connectivity.
- Built supporting **React** frontend applications with **Redux** state management, lazy loading, and code splitting for performance optimization.

PROJECTS

- Tournated** | *NestJS, GraphQL, PostgreSQL, AWS, JWT, RBAC, WebSockets* | ☞ Feb 2025 – Present
- Built core backend systems for a production **white-label SaaS sports platform** deployed across **15–20 countries** including China, powering tournament and league management for governing bodies, clubs, and athletes globally.
 - Optimized critical API endpoints reducing response times from **1000ms to under 200ms (80% reduction)** through query optimization and database schema restructuring for scale.
 - Implemented **AWS SNS** push notifications and **Stripe webhook** integration for payment processing, subscription lifecycle management, and real-time event alerts.
 - Migrated legacy APIs to modern **NestJS architecture**, improving maintainability and long-term scalability of the backend codebase.
- PicMe** | *React.js, Node.js, Stripe, REST APIs, PostgreSQL* | ☞ March 2024 – Jan 2025
- Developed frontend and core backend features for a **global photographer booking marketplace** serving **5,000+ users** across 3–4 countries, connecting clients with photographers for events, travel, and weddings.
 - Built end-to-end booking flow with **Stripe payment integration**, webhook handling for transaction validation, subscription lifecycle management, and failure recovery flows.
 - Developed REST API integrations and **React** frontend for photographer availability, pricing management, and real-time booking confirmation across mobile and web clients.
- Mental Edge** | *React.js, Electron, WebSockets, Highcharts, WebRTC* | ☞ April 2023 – Jan 2025
- Built the **frontend from scratch** for an AI-powered emotional analytics platform analyzing facial micro-expressions in real time, serving coaches, healthcare providers, and business leaders.
 - Developed **real-time video UI** using **WebRTC** and **WebSockets** alongside interactive **Highcharts** dashboards visualizing emotional patterns and cognitive performance metrics for end users.
 - Delivered as a **cross-platform Electron desktop application** running consistently across Windows and macOS.

EDUCATION

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| University of the Punjab, Lahore (PUCIT FCIT)
<i>Bachelor of Science in Information Technology</i> | Lahore, Punjab, Pakistan
<i>October 2019 – July 2023</i> |
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