

Asad Ahmad

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

SUMMARY

Backend Engineer with 4+ years building SaaS platforms, real-time systems, and GraphQL APIs in production. Currently leading a small engineering team at a product company - owning architecture decisions, backend system design, and client-facing delivery. I work primarily in TypeScript and NestJS, and I care about systems that stay reliable when things get busy.

SKILLS

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

Frontend: React.js, Next.js, React Native, Electron.js

Cloud & DevOps: AWS, Vercel, Docker, CI/CD

Databases: PostgreSQL, MongoDB, MySQL, Firebase

Realtime Systems: WebSockets, Socket.io, GraphQL Subscriptions

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

Spadasoft

Feb 2025 – Present

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** and Vercel, achieving **99.9% uptime** while streamlining CI/CD pipelines to reduce deployment friction.

Sr. Software Engineer

Zweidevs

April 2023 – Jan 2025

Lahore, Punjab, Pakistan

- Led end-to-end development of an **Electron-based desktop application**, owning architecture, state management, and third-party integrations including **Stripe** and **GPT APIs**.
- Built real-time features using **Socket.io WebSockets** and introduced **CI/CD pipelines, code reviews, and automated testing**, improving delivery stability.
- Developed analytics dashboards using **Highcharts** and built scalable **React** frontend applications across multiple client projects.

Software Engineer

eBridge Technologies

Feb 2022 – March 2023

Lahore, Punjab, Pakistan

- Built scalable **React** frontend applications and **Node.js/Express** REST APIs, improving response performance by **30%**.
- Designed reusable frontend architecture using **Redux and Context API** with performance optimizations including lazy loading and code splitting.

Assoc. Software Engineer

Zanbeel

July 2021 – January 2022

Lahore, Punjab, Pakistan

- Built responsive **React.js** UI components using **Tailwind CSS and Ant Design**, contributing to client-facing product features.

- Developed reusable component library adopted across the frontend team, reducing redundant code and speeding up delivery.

PROJECTS

- Tournated** | *NestJS, GraphQL, PostgreSQL, AWS, JWT, RBAC, WebSockets* | ☞ Feb 2025 – Present
- Contributed to 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 across mobile and web clients.
 - Migrated legacy APIs to modern **NestJS architecture**, improving maintainability and long-term scalability of the backend codebase.
- Mental Edge** | *React.js, Electron, WebSockets, Highcharts* | ☞ April 2023 – Jan 2025
- Built **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.
 - Delivered as a **cross-platform Electron desktop application** running consistently across Windows and macOS.
- PicMe** | *React.js, Stripe, REST APIs, Tailwind CSS* | ☞ March 2024 – Jan 2025
- Led frontend development from scratch 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 including photographer discovery, availability scheduling, and **Stripe payment integration** with webhook handling for transaction validation and failure recovery.
 - Developed photographer portfolio pages, pricing management, and client-facing booking UI — delivering a polished, production-ready experience across the full frontend stack.

EDUCATION

- University of the Punjab, Lahore (PUCIT | FCIT)** Lahore, Punjab, Pakistan
Bachelor of Science in Information Technology October 2019 – July 2023
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