

Syed Abdul Ahad

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Professional Summary

Software Engineer with **1.5+** years experience in Full Stack Development, **AI Systems**, and **Scalable** Architecture, with hands-on experience leading the development of production-grade platforms from concept to deployment. Experienced in designing **modular systems**, orchestrating **multi-LLM workflows**, optimizing high-performance applications, and delivering end-to-end solutions using **React.js, Next.js, Node.js, TypeScript, PostgreSQL, MongoDB, MySQL, Redis, and AWS**. Combines strong engineering fundamentals, product ownership, and system thinking to build intelligent, reliable, and impactful software at scale.

Education

BACHELOR OF ENGINEERING (BE) | 2022-2026 | NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

- Major: Software Engineering (**3.72 CGPA**)
- Related coursework: OOP, Web Engineering, DBMS, Data Structures and Algorithms, Software Engineering & Architecture, Design Patterns, Cloud Computing, Network and Information security.

INTERMEDIATE | 2020-2022 | GOVT. DELHI COLLEGE

- Major: Pre-Engineering
- Secured 4th position with 96.3% marks in Intermediate, Karachi Board.

Experience

ASSOCIATE SOFTWARE ENGINEER | MARKCODERS | MAY 2026 – PRESENT

- Leading end-to-end development of an AI-powered recruitment platform using Next.js, Node.js, TypeScript, and **multi-LLM integrations**, delivering **10+ production** features across resume intelligence, candidate matching, AI interviewing, and conversational AI.
- Designed a modular AI orchestration framework supporting **OpenAI and Gemini**, leveraging SOLID principles and design patterns to reduce feature implementation effort by **~40%** and accelerate integration of new AI capabilities.
- Reduced AI inference costs and response times by **~50%** through intelligent **crawling**, preprocessing, and validation pipelines that minimized unnecessary LLM calls while improving result relevance and consistency.

Tech Stack: Next.js, Node.js, PostgreSQL, OpenAI API, Gemini API, Firecrawl, Web Scraping, Redis, BullMQ, AWS, Google Maps, Background Job Processing, System Design, Performance Optimization, Scalable Architecture

SOFTWARE ENGINEER | PULSE CONSULTANTS LTD. | AUG 2025 – MAY 2026

- Led end-to-end development of **3 client projects**, owning architecture, tech stack decisions, and delivery, targeting **100,000+ users** across multiple domains.
- Improved performance and maintainability of **Home Town Hero** by modularizing code, removing redundancy, optimizing data flow, and building 50+ reusable components, reducing development time by **35%** and improving performance.
- Acted as **Full Stack Lead**, driving client requirements, scope finalization, and technical delivery while enforcing engineering standards and coordinating a team of 4 engineers to deliver **100+** features on time.

Tech Stack: ReactJS, NodeJS, PostgreSQL, MongoDB, AWS, websockets, Redis, RabbitMQ, Stripe, Scalable Architecture

JUNIOR SOFTWARE ENGINEER | OMNISOL AI | FEB 2025 – AUG 2025

- Contributed to both **frontend and backend** development of the company's web application using a **modular architecture** built with **Nest.js** and **React.js**, ensuring maintainability and scalability.
- Served as the **Full Stack Developer** for a large-scale **SaaS-based Inventory Management System**, solving high-impact scalability and performance challenges, and ensuring code quality and architectural consistency across the stack.

Developed and optimized RESTful APIs using **Nest.js**, enhancing backend efficiency and improving system performance by **1.25x** through cleaner architecture and optimized database queries.

Tech Stack: Nest.js, Next.js, Node.js, React.js, MongoDB, PostgreSQL, Redis, Performance Optimization, Scalable Architecture

Personal Projects

WISPRNET - A LOW-COST CONNECTIVITY MESH NETWORK (FYP): [IOT, ARDUINO, REACT NATIVE, ESP32, LO-RA]

As an IoT & backend developer for WisprNet, built a low-cost, solar-powered mesh networking solution designed to extend connectivity in low-coverage and remote areas. The system uses distributed nodes that self-connect to create long-range communication networks, enabling rural communication, smart agriculture, and digital access where traditional networks fail. Worked on hardware-software integration, network architecture, and scalable deployment models.

CONNEXIFY - A REAL TIME CHAT APPLICATION: [REACT, NODE, SOCKET.IO, MONGODB, OAUTH, TAILWINDCSS, SHADCN]

Connexify is a real-time chat application enabling seamless and instant communication between users. It supports messaging, real-time updates, and secure data transmission. I worked as a Full Stack Developer on this project using the MERN stack and WebSockets, implementing an intuitive UI with Tailwind CSS and DaisyUI.

ONCOCURA - A CANCER TREATMENT WEB: [NODE, EXPRESS, MONGODB, REDIS, TAILWINDCSS, GEMINI API]

As a Backend developer on OncoCura, utilizing NodeJS, Express & MongoDB to create a dynamic, AI-Driven Platform that analyzes Cancer Patients' medical records to generate personalized treatment plans. The platform securely manages health data, tracks treatments in real-time, and integrates an e-store for ethical access to Cancer medications.

Client Project

MENTORICK - MENTORSHIP MARKETPLACE PLATFORM

Built a full-stack mentorship marketplace enabling mentor-mentee matching, session booking, and seamless user experience with integrated PayPal PPCP payments. Designed scalable system architecture and implemented frontend and backend features using Node.js, Express, MongoDB, and modern UI workflows. Ensured reliable onboarding, secure transactions, and smooth end-to-end platform flow with production-grade reliability.

Tech Stack: MERN stack, Google Calendar, Google Meet integration, OAuth, Paypal Integration, AWS, Vercel

Skills & Abilities

Languages: JavaScript, TypeScript, Python, C++, SQL

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

Backend: Node.js, Express.js, Nest.js, REST APIs, WebSockets

Databases: PostgreSQL, MongoDB, MySQL, Firebase, Prisma ORM, Redis.

Cloud & DevOps: AWS, Linux, Git, GitHub

AI & Data: OpenAI API, Gemini API, Firecrawl, Web Scraping, Prompt Engineering, Background Job Processing, BullMQ

Architecture: System Design, Scalable Architecture, Performance Optimization, Design Patterns, SOLID Principles.

Interests: Software Development, Cloud Computing, Artificial Intelligence.

Achievements

2ND PRIZE | TEKNOFEST | EXPO CENTER, KARACHI

- Secured Second Prize in Full stack web application competition at Teknofest competing with teams from all over Karachi, organized by Islami Jamiat e Talba Pakistan.

1ST PRIZE | CODESPHERE | NED UNIVERSITY

- Achieved First Prize in Desktop Application Development at “CodeSphere” organized by Software Dept. of the NED University.

NATIONAL LEVEL REPRESENTATION |INVENT FOR THE GREATER GOOD | IBA, KARACHI

- Honored to be a top 12 finalist, showcasing my final-year project “WisprNet” at a competition featuring 200+ projects from all over Pakistan