

ABDUL NAAFAY

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PROFESSIONAL SUMMARY

AI-focused Backend Software Engineer specializing in RAG pipelines, agentic AI workflows, semantic search, and scalable system architecture across MERN, FastAPI, and Python ecosystems. Proven track record architecting production-grade AI-driven systems, optimizing backend performance, and delivering measurable efficiency gains through LLM-powered automation. Strong foundation in system design, SQL/NoSQL data engineering, and full-stack deployment.

EDUCATION

Lahore University of Management Sciences (LUMS)

B.S. in Computer Science — Graduated with High Merit

- CGPA: 3.56 | Specialization CGPA: 3.78
- Dean's Honour List (Fall 2023–24, Spring 2023–24, Spring 2024–25)

Lahore, Pakistan
Aug. 2022 – July 2026

WORK EXPERIENCE

Trainee AI Engineer

Virtual Force Inc.

Jul. 2026 – Present

Lahore, Pakistan

- Modernized HR operations by architecting a centralized in-house profile management system, eliminating legacy spreadsheet-based workflows across onboarding and role assignment.
- Increased HR role-assignment efficiency by 70% by engineering a RAG-powered semantic search layer over employee profile data, enabling natural-language retrieval across unstructured records.
- Sustained 99.5% uptime across 5+ in-house applications by applying rigorous system architecture and design principles throughout the deployment lifecycle.
- Reduced new-joiner onboarding time by 40% through UI/UX redesign of core navigation flows, improving early engagement for incoming employees.
- Aligned AI-driven system designs with business goals by collaborating cross-functionally and shadowing client meetings across in-house projects.

Data Analytics Intern

Systems Limited

Jul. 2025 – Sept. 2025

Lahore, Pakistan

- Processed 2M+ records weekly by engineering ETL pipelines with SSIS and SQL Server, enabling reliable downstream reporting.
- Improved query performance by 40% through indexing and SQL query tuning across production databases.
- Designed scalable database schemas for 10+ systems and built backend integrations connecting SQL Server databases to Node.js and Python services for automated data validation and reporting.

AI & Data Analytics Intern

14x Solutions

Sept. 2025 – Jan. 2026

Lahore, Pakistan

- Built backend AI-powered Python pipelines for healthcare data processing, integrating LLM/NLP-based classification to process 500k+ records monthly.
- Improved operational efficiency by 60% and cut manual workload by 50% by automating healthcare data workflows and backend pipeline design.

PROJECTS

IQueue | React, Node.js, Express, MongoDB, Redis | [Live Demo](#)

Sept. 2025 – May. 2026

- Deployed a full-stack application serving 100+ users via 30+ REST API endpoints, achieving sub-350ms latency using Redis caching, indexing, Docker, and CI/CD.
- Digitized queue management for small businesses replacing manual token systems and improving customer throughput by an estimated 25%, reducing perceived wait times.

Edulink | React, Node.js, Express, MongoDB

Jan. 2025 – May. 2026

- Built a full-stack platform with 20+ APIs supporting real-time messaging and course workflows, improving onboarding efficiency by 50% via scalable schema design.
- Increased student-instructor engagement by enabling real-time communication and coursework tracking, reducing administrative overhead for course coordinators.

TECHNICAL SKILLS

AI/ML: RAG Pipelines, Agentic AI, LLM Integration, Semantic Search, Vector Databases, Prompt Engineering

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

Languages: JavaScript, TypeScript, Python, SQL

Databases: MongoDB, SQL Server, Redis; query optimization, schema design

Tools: Git, Docker, CI/CD, Cloud Deployment