Muhammad Waleed

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SUMMARY

Full Stack and AI Engineer (Next.js, TypeScript, PostgreSQL) with **8+ deployed applications**, including a **cited-answer RAG app on a $0 stack** and a real-time ride-hailing platform. Completed **4 certifications** in AI agents, RAG, MCP, n8n automation, and AWS Fundamentals. Seeking a junior developer role on a growing engineering team.

EDUCATION

City University of Science and Information Technology (CUSIT), Peshawar *2024 – 2028*
B.S. in Software Engineering

EXPERIENCE

Crixsoft | Software Development Intern *2026*
- Built and maintained features in **real client web projects** using React.js and Node.js
- Delivered work on schedule through close collaboration with a professional development team

CGBZ Society, CUSIT | Web Developer *2024 – Present*
- Developed and maintained web projects for the university's technical society as part of a team
- Participated in tech competitions and events

PROJECTS

RAG Document Q&A — AI Assistant with Cited Answers
Next.js, TypeScript, PostgreSQL (pgvector), Gemini, Groq, Docker, GitHub Actions | rag-doc-qa-beta.vercel.app | github.com/waleed-kn/rag-doc-qa
- Built and deployed a document Q&A app that returns **page-level cited answers** and declines out-of-scope questions, through semantic search with a similarity threshold, using pgvector, Gemini embeddings, and Groq at **$0 infrastructure cost**
- Kept the app reliable within free-tier API limits through resumable batch embedding, automatic model fallback, and Postgres-backed rate limiting (**3 questions per minute per visitor**), using Next.js route handlers and Neon
- Shipped with **30+ unit tests**, an evaluation harness that scores answer correctness, citation accuracy, and refusals, and CI on GitHub Actions (lint, type-check, tests, build, Docker image)

RideShare — Real-Time Ride-Hailing Platform
Next.js, WebSocket, Redis (geospatial), Mapbox, Stripe (test mode), JWT | ride-share-indol-two.vercel.app
- Built real-time rider-driver matching through a **Redis geospatial index** and **WebSocket** live location and ride-status updates in a full-stack Next.js platform
- Designed a server-validated **5-state ride lifecycle** (requested → accepted → in progress → completed → paid) using Mapbox for geocoding/routing and Stripe test-mode payments

Recall — AI Study Assistant
Next.js, TypeScript, PostgreSQL, Prisma, Zod, OpenAI API, Tailwind CSS
- Turned study notes into structured flashcards using the OpenAI API, with PostgreSQL/Prisma for persistent data and Zod for validation

E-Commerce Platform
Next.js, PostgreSQL, Auth.js, Prisma | ecommerce-frontend-jrqn.onrender.com
- Built a full-stack e-commerce platform with authentication, role-based access, cart, and order management
- Secured it with JWT sessions, bcrypt hashing, and a protected admin dashboard, using Prisma ORM for data management

AI Cover Letter Generator & AI Resume Reviewer
Next.js, TypeScript, Groq API | github.com/waleed-kn
- Built AI tools that generate tailored cover letters and structured resume feedback (**score, strengths, weaknesses**) using the Groq API

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, HTML, CSS
Frameworks & Tools: Next.js, React.js, Node.js, Express.js, Tailwind CSS, Prisma ORM, Auth.js, Zod, Vitest
Databases: PostgreSQL (pgvector), MongoDB, Neon, Redis
AI & Automation: RAG Systems, AI Agents, MCP, n8n Workflow Automation, OpenAI API, Gemini API, Groq API
Cloud & DevOps: AWS (EC2, S3, IAM, VPC, Lambda), Docker, GitHub Actions, Vercel, Git, GitHub, Postman

CERTIFICATIONS

AI Automation Engineer with n8n Specialization (7 courses), LearnKartS | Coursera *Sep 2026*
AWS Fundamentals Specialization (3 courses), AWS | Coursera *Aug 2026*
Build Production AI Agents with RAG and MCP, LearnKartS | Coursera *Jun 2026*
Agentic AI Foundations with MERN, RAG and MCP, LearnKartS | Coursera *2026*