

Rafay Waseem

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Portfolio: <https://rafaywaseem.me/about> | LinkedIn: <https://www.linkedin.com/in/rafay-waseem/> | GitHub: <https://github.com/RafayWaseem>

Professional Summary

AI-focused Full Stack Developer and Computer Science student at Dawood University of Engineering and Technology, Karachi. Experienced in building production-ready SaaS tools, public web platforms, AI-powered applications, e-commerce dashboards, HRMS modules, real-time systems, and business automation solutions. Skilled in JavaScript, TypeScript, React.js, Next.js, Node.js, NestJS, Express.js, MongoDB, MySQL, Redis, REST APIs, authentication, payment gateways, AI recommendations, background queues, and scalable backend development. Built multiple live products with real users and public traffic.

Technical Skills

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

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, ShadCN UI, Framer Motion, JavaFX, FXML

Backend: Node.js, Express.js, NestJS, FastAPI, REST APIs, JWT Authentication, OTP Verification, RBAC

Databases & Storage: MongoDB, MySQL, Firebase, Redis, Cloudinary

Real-Time & Queues: Socket.io, WebRTC, BullMQ, Bull Queue, Redis Queue, Real-Time Notifications

AI & Automation: OpenAI API, Gemini API, AI Recommendations, AI Chatbots, RAG Systems, Vector Databases, Prompt Engineering

Tools & DevOps: Git, GitHub, Docker, Vercel, Postman, Maven, Scene Builder, Responsive Design, SEO

Products And Live Platforms

Passport Size Photo Maker - Client-Side Passport Photo Generator | <https://passportsizephotomaker.app>

- Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Browser APIs
- Built a client-side passport photo generator where users upload, crop, align, adjust, customize backgrounds, add borders/formal clothing overlays, and export passport photo sheets without a backend server.
- Designed a mobile responsive, SEO-friendly workflow for students, job applicants, and document users; launched as a public product with real users.

Invoice Generator Platform | <https://invoice.rafaywaseem.me/>

- Tech Stack: JavaScript, HTML, CSS, Responsive UI
- Created a no-login invoice tool for freelancers, small businesses, service providers, and online sellers with customer details, items, payment details, total calculation, and printable output.
- Built a clean traffic-facing product focused on fast usage, simple form handling, and mobile-friendly invoice creation.

Urdu Typing Test Platform | <https://urdutypingtest.rafaywaseem.me/>

- Tech Stack: JavaScript, SEO, Performance Optimization
- Developed an Urdu typing speed platform that calculates WPM, CPM, and accuracy without signup/login and supports organic traffic through SEO-focused content.
- Improved user experience for Urdu learners through simple testing flow, public accessibility, and performance-focused frontend development.

Rafay Waseem Blog and Tools Platform | <https://rafaywaseem.me/blog> | <https://rafaywaseem.me/tools>

- Tech Stack: Next.js, React.js, Tailwind CSS, SEO
- Built SEO-friendly blog and tools pages for publishing technical content, product guides, and public utility tools under a personal portfolio ecosystem.
- Designed responsive product showcase pages to support organic traffic, personal branding, and public web utility growth.

Major Projects

Khareedlo Store - Advanced E-Commerce and HRMS Platform | <https://rafaywaseem.me/work>

- Built an advanced e-commerce and HRMS platform with secure admin dashboard for products, categories, pricing, inventory, variants, media, SEO, shipping, orders, blog content, comments, users, finance, and moderation.
- Implemented HRMS recruitment features including job posting and application management, plus AI-based product recommendation and payment gateway integration.

Tech Stack: Next.js, React.js, Node.js, NestJS, MongoDB, Redis, Tailwind CSS, REST APIs, AI Recommendations, Payment Gateway

Keep Notes App - Notes, Collaboration and Reminder Platform | <https://rafaywaseem.me/work>

- Developed a scalable notes platform with create/edit/delete notes, Google authentication, OTP verification, collaborative sharing, real-time updates, reminders, notifications, Redis caching, and BullMQ background jobs.
- Designed secure APIs and backend architecture for productivity workflows, reminders, and notification processing.

Tech Stack: NestJS, Node.js, TypeScript, MongoDB, Redis, BullMQ, Google Auth, OTP, REST APIs

PDF Toolkit Pro – Advanced Document Processing Platform | <https://rafaywaseem.me/work>

Full-stack PDF processing platform built with Next.js, Node.js, Redis, and MongoDB supporting 30+ professional document tools.

- Document operations: merge, split, rotate, crop, metadata editing
- Office ↔ PDF conversion using LibreOffice
- OCR text recognition using Tesseract & High-quality PDF rendering via Poppler
- Background processing with Bull Queue + Redis
- Real-time progress updates using Socket.io

Tech Stack: Next.js, Node.js, Express, MongoDB, Redis, Tailwind CSS, Socket.io

AI Dish Wala – AI Recipe Generation Platform | <https://rafaywaseem.me/work>

AI-powered recipe platform is designed to help users generate recipes in multiple languages with intelligent suggestions.

- 7 AI recipe engines (MasterChef, PantryChef, MealPlanChef, etc.)
- AI-generated recipes with YouTube video recommendations
- Subscription system with Stripe payments
- Credit-based usage model with free, pro, and premium tiers
- Admin dashboard for analytics, payments, and user management
- Integrated AI chatbot support

Tech Stack: MERN Stack, Gemini API, Stripe, Redis Rate Limiting, JWT Auth, OTP Verification

Study Room – Real-Time Collaborative Learning App | <https://rafaywaseem.me/work>

A platform allowing students to study together virtually in synchronized environments.

- Real-time synchronized YouTube study sessions
- Video calling and chat
- Cross-platform (Web + Mobile)

Tech Stack: React Native, Node.js, MongoDB, Socket.io, WebRTC, Firebase, Expo

Restaurant POS & Management System | <https://rafaywaseem.me/work>

Enterprise POS system designed to manage restaurant operations including billing and inventory.

Tech Stack: Java • JavaFX • Maven • MySQL • FXML • Scene Builder

Education

Bachelor of Computer Science

Dawood University of Engineering and Technology | 2024 – Present

- CGPA: 3.42 / 4.0 | **Ranked 1st in class (3rd semester)** in relative grading system

Intermediate – Pre Engineering

Cadet College Larkana

Board of Intermediate Education Larkana

- **1st Position Overall in Board** | Score: 996 / 1100 (A+ Grade)

Certifications

Full Stack Generative & Agentic AI with Python

Course covering: Tokenization, RAG, Vector Databases, AI Agents, and scalable AI systems

Verification <https://www.udemy.com/certificate/UC-4484b408-8417-467e-b849-40561370b39b/>

Achievements

- 1st Rank in University Class – CGPA 3.6 / 4 (Semester)
- 1st Position in BISE Larkana Board – 996 / 1100 marks
- Built 10+ real-world applications including AI platforms, SaaS tools, and enterprise systems.

Experience

Online Services Provider

Rafay Graphics Printing & Online Services (Own Business with Father) | 2023 – Present

- Managed digital services including printing, document processing, and online applications.
- Worked with real customers, understanding client requirements and delivering technical solutions.

Interests

System Design • DevOps • AI Systems • Problem Solving • Reading