

# MUHAMMAD WALEED ASHRAF

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## SUMMARY

Versatile and results-driven Frontend Developer and Full Stack Engineer with a strong background in building dynamic, responsive web applications using React.js, Next.js, and Node.js. Experienced in developing scalable frontend interfaces and robust backend systems, with a solid foundation in AI and machine learning integration.

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## WORK EXPERIENCE

### AI/ML Engineer – Advancing Data Solutions (Dec 2025 – Present)

Building and deploying production-grade pipelines for document processing & automation.

### AI Engineer – Sangtra.ai (July 2025 – Nov 2025)

Designed and deployed AI-driven applications using LLMs, RAG pipelines, and FastAPI.

### AI & Full Stack Developer – Voltic (Jan 2025 – Jun 2025)

Developed and deployed machine learning models for multiple applications.

### Full Stack Developer – Fista Solutions (Jun 2024 – Aug 2024)

Developed and maintained front-end and back-end systems using Next.js.

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## PROJECTS

### AI-Powered Recipe Generation & Image Extraction System

- Deployed LLaMA 3.2 3B Instruct for recipe generation with RAG, Gemma 4B IT for flyer text extraction, and SDXL for recipe image generation on Runpod A40 GPU servers.
- Automated model execution and uptime management using PM2, ensuring high availability.

### RAG-based Chatbot with LLM and Reactjs

- Developed a chat-bot leveraging Retrieval-Augmented Generation (RAG) to answer queries.
- Built an intuitive and responsive frontend using React.js.

### AI Healthcare Appointment Voice Agent

- Developed an AI-powered voice assistant using ElevenLabs and n8n to handle end-to-end healthcare appointment bookings through natural speech.
- Integrated Google Calendar and Gmail for automated scheduling and email confirmations, improving patient experience and reducing manual workload.

### Ritual Generator Web App

- Developed and deployed a nextjs web app using llm for ai ritual generator with docker and nginx

### Final Year Project : “AI-RiceHarbor App” (TensorFlow, MobileNetV2, Flutter)

- Accurate rice type prediction using MobileNetV2 and TensorFlow/Keras.
  - Direct connection between buyers and farmers for transparent transactions.
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## EDUCATION

### Bachelor of Computer Science

2020-2024

National University of Computer and Emerging Sciences (FAST NUCES)

### FSc Pre-Engineering

2018-2020

Punjab Group of Colleges

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## ADDITIONAL INFORMATION

- **Technical Skills:** ReactJs, MERN, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, LLM Fine-tuning, API Development, FastAPI, Prompt Engineering, AWS (EC2, S3, Bedrock)