

AZIZ ULLAH

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PROFESSIONAL SUMMARY

NUST Computer Science student (2027) specializing in full-stack development and applied AI. Builds production LLM applications including agentic systems, RAG pipelines, and fine-tuned models, using React, Next.js, Node.js, LangGraph, PyTorch, and Hugging Face. Passionate about combining intelligent, agent-based systems with real-world user impact.

EDUCATION

Bachelor of Science in Computer Science Sep 2023 – Jul 2027
National University of Sciences and Technology (NUST), Pakistan

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, Dart
- **Frameworks:** React, Next.js, Node.js, Django, Flutter, React Native
- **AI & ML:** LLMs, Agentic AI, LangGraph, RAG Pipelines, Transformer Fine-Tuning, PyTorch, TensorFlow, Hugging Face, Vector Search (pgvector)
- **Tools & Databases:** Git, Docker, Linux, MySQL, PostgreSQL, MongoDB, Neo4j, Supabase
- **Core Areas:** Data Structures & Algorithms, OOP, REST APIs, OAuth, API Design

PROJECTS

Space Biology Knowledge Engine – NLP, React, Neo4j

- Built an AI-powered platform that extracts and maps NASA research papers into an interconnected knowledge graph for semantic discovery; selected as a Global Nominee worldwide

Hadi – Islamic AI Assistant – Next.js, Supabase, pgvector, Modal, Hugging Face

- Built a full-stack RAG application serving a fine-tuned Qwen3-8B model, with pgvector semantic search over Quran and Hadith using multilingual-e5-large-instruct embeddings

Jerry – LangGraph Personal Assistant Agent – Python, LangGraph, Groq Llama 3.3-70B

- Developed an autonomous agent integrating Gmail, Calendar/Tasks, and browser-based task automation via Playwright, with a voice-enabled web UI and extensible tool-calling architecture

Exam Management System – React, Express.js, SQLite, JWT

- Automated multi-room seat allocation and PDF invigilation pack generation, cutting manual scheduling effort by an estimated 70% for exam coordinators

Tawba – AI-Powered Islamic Mobile App – React Native, Supabase, PostgreSQL, SQLite

- Delivered an offline-first Islamic app with prayer time notifications, Quran and Hadith search, and an LLM-powered chat assistant, achieving 100% core functionality offline

ACHIEVEMENTS

- NUST High Achiever Award
- Won NASA Space Apps Challenge 2025 local event; selected as Global Nominee
- 1st Runner-Up at Hult Prize 2024-2025 OnCampus Program

CERTIFICATIONS

- Generative AI and LLMs: Architecture and Data Preparation – Coursera (2025)
- Artificial Intelligence A-Z: Agentic AI, Gen AI, and RL – Udemy (2024)
- Python for Data Science, AI & Development – Coursera (2024)