MITUL DIAL

Software Developer & AI Engineer

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GitHub | LinkedIn | Portfolio

Computer Science student at FAST-NUCES Islamabad with hands-on experience building full-stack applications and AI-powered software. Skilled in Python, JavaScript, C++, React, Node.js, Flutter, Firebase, and Gemini, with projects spanning AI orchestration, RAG systems, voice automation, and web applications. Strong foundation in software development, object-oriented programming, and data structures.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, Dart, Java, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Flutter

Backend: Node.js, Express.js, REST APIs, JWT

Databases: Microsoft SQL Server, MongoDB, Firebase/Firestore

AI & ML: Gemini, LLM Integration, RAG, Embeddings, AI Agents, Scikit-learn

Tools: Git, GitHub, Postman, Maven

Core CS: Object-Oriented Programming, Data Structures & Algorithms

PROJECTS

Karigar AI: AI Service Orchestration Platform | Flutter, Firebase, Gemini, Dart 2026

- Built a multilingual AI platform that interprets natural-language service requests and matches users with providers through an agentic workflow for intent parsing, ranking, and booking.

StudyGenie: RAG-Based AI Tutor | React, Node.js, Express, Gemini 2026

- Built a RAG-based AI tutor using document embeddings and cosine-similarity retrieval to generate responses grounded exclusively in uploaded course materials, with adaptive learning modes.

NOVA: Local Desktop Voice Assistant | Python, SpeechRecognition, pyttsx3, psutil 2026

- Built an offline voice assistant for desktop automation using local speech-to-text, text-to-speech, application control, and modular command handling without cloud APIs.

UniVerse: University Event & Society Management Platform | Java, JavaFX, SQL Server, JDBC 2026

- Developed a role-based JavaFX platform with layered MVC architecture and a normalized 13-table SQL Server database using JDBC for event, society, sponsorship, and notification management.

Railway Control Center: Railway Simulation & Data Structures Engine | C++, Python, PySide6 2026

- Developed a C++ data-structure engine for railway simulation and algorithm visualization, integrated with an interactive PySide6 interface.

EDUCATION

Bachelor of Science in Computer Science Aug 2024 – Present

National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad

CERTIFICATIONS

- **Deep Learning Specialization:** DeepLearning.AI July 2026
- **Machine Learning Specialization:** DeepLearning.AI · Stanford University · Coursera July 2026
- **Meta Front-End Developer Professional Certificate:** Meta · Coursera Jun 2025
- **Introduction to Generative AI Learning Path:** Google Cloud · Coursera July 2025
- **Engineer AI Agents with Agent Development Kit (ADK) Intermediate Skill Badge**: Google Cloud May 2025
- **Data Analysis and Visualization with Python**: Microsoft · Coursera Dec 2025

LEADERSHIP & ACHIEVEMENTS

Silver Tier Award: AISeekho 2026 / Google Antigravity Hackathon May 2026

• Built StudyGenie, a RAG-based AI tutoring platform using React, Node.js, and Gemini.

Vice Head of Operations · **NASCON'26 FAST NUCES Islamabad** May 2026 – Present

Event Officer · **Google Developer Groups on Campus FAST Islamabad** Oct 2025 – Present