

MUHAMMAD ROMAN

AI Engineer | Full-Stack & Mobile App Developer (Flutter)

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PROFESSIONAL SUMMARY

BS Computer Software Engineering graduate (CUSIT, Peshawar, 2026), currently pursuing an MS in Computer Science, building at the intersection of AI engineering and full-stack mobile app development. Experience designing and shipping AI-powered Flutter applications, building intelligent agents and data pipelines, and taking products from PRD/SRS through to working end-to-end systems. Comfortable owning a product end-to-end as sole founder/developer, from architecture and spec-writing to implementation.

TECHNICAL SKILLS

AI Engineering: Intelligent agent & pipeline design, retrieval-augmented generation, LLM integration & prompt engineering, multi-agent system architecture, machine learning fundamentals (neural networks, decision trees), natural language processing basics, image-based data extraction and classification, vector embeddings & semantic search, web-scraping & data pipelines, API-based AI service integration, model evaluation & iteration

Mobile / App Development: Flutter, Dart, state management (Provider/Riverpod/BLoC patterns), Firebase, Supabase, REST API integration, cross-platform development (Android & iOS), responsive UI/UX implementation, local & cloud data persistence, device-agnostic hardware integration, app performance optimization

Programming Languages & Databases: Python, Dart, SQL & NoSQL data modeling

Full-Stack Development: Front-end & back-end architecture, RESTful API design & integration, authentication & authorization flows, cloud/serverless backends (Firebase, Supabase), database design (SQL & NoSQL), end-to-end feature delivery from UI to server logic

Tools & Platforms: Git & version control, Firebase Console, Supabase, REST/JSON APIs, Postman/API testing, cloud & serverless deployment basics

Engineering Practice: Spec-driven development (PRD/SRS/FSD), SDLC & multi-agent orchestration workflows, technical documentation, QA/change-control discipline, code review & debugging

KEY PROJECTS

Halal-Guard — AI-powered Flutter app that verifies whether food products are halal (CUSIT Final Year Project).

Universal Smart Solar & Energy Management App — AI-driven cross-platform app connecting to solar/inverter/battery/meter hardware with a real-time AI copilot.

Weather Prediction AI Agent — Agent that scrapes multiple weather sources to produce short-term forecasts with confidence scoring.

WeatherFlow — Personal-practice Flutter weather app built end-to-end from PRD/SRS.

EXPERIENCE

Flutter Developer (Intern) — CodeCelix

- Developed and maintained features for Flutter mobile applications during internship.

Freelance Developer — Self-employed

- Delivered full-stack and mobile development projects for freelance clients.

EDUCATION

MS Computer Science — In Progress (since 2026)

BS Computer Software Engineering — City University of Science and Information Technology (CUSIT), Peshawar

FSc Pre-Engineering — Edwardes College, Peshawar

Matriculation — Peshawar Model School (Boys)