



Maryam Mumtaz

AI Agent Engineer & Full-Stack Developer

✉ maryamqureshimumtazm.a@gmail.com 📍 Karachi, Sindh 🏠 [maryam-mumtaz](#)

🔗 [MaryamMumtaz-piaic](#) 🌐 [Digital Portfolio](#)

Professional Profile

AI Agent Engineer & Full-Stack Developer specializing in architecting Agentic Infrastructure—leveraging reusable intelligence and cloud-native systems. Top-performing hackathon participant with expertise in building AI-native platforms and complex microservices architectures on Kubernetes. Successfully delivered 50+ real-world projects, mastering advanced tools like Claude Code, Goose, Kafka, and Dapr.

Technical Powerhouse

AI & AGENTIC INFRASTRUCTURE

[AI Agents](#) [MCP Protocols](#) [LangChain](#) [RAG](#) [Reusable Intelligence](#)

CLOUD & DEVOPS

[Kubernetes](#) [Docker](#) [Kafka](#) [Dapr](#) [Microservices](#)

FULL STACK & TOOLS

[Next.js](#) [TypeScript](#) [Claude Code](#) [Stripe](#) [Tailwind CSS](#)

Education

Agentic & Robotic AI Engineering

PIAIC • 2025 – 2026 (In Progress)

Diploma in Information Technology

Govt. of Sindh VTC • 2023 – 2024

Intermediate in Engineering

Govt. Degree College for Women • 2020 – 2022

Work Experience

AI Agent & Infrastructure Engineer

Independent & Hackathon Projects

2024 — Present

- Architecting Agentic Infrastructure using MCP protocols and reusable intelligence for autonomous execution.
- Achieved a 90%+ reduction in token usage through optimized execution patterns and custom RAG agents.
- Developed complex microservices architectures on Kubernetes for AI-native platforms.
- Top-performing participant in national-level hackathons, delivering elite AI integrated systems.

Full-Stack Developer

Client-Focused Solutions

2023 — Present

- Delivered 50+ real-world projects, mastering modern developer tools like Claude Code and Dapr.
- Built high-performance e-commerce platforms with real-time inventory and Stripe integrations.
- Focused on building robust, scalable web applications with Next.js and Cloud-Native infra.

Featured Projects

LearnFlow AI Platform

Autonomous microservices learning platform featuring persistent memory and struggle detection with real-time skill acquisition.

KUBERNETES

AGENTS

Physical AI Textbook

AI-native textbook for Humanoid Robotics, featuring custom RAG agents and Urdu language translation layers.

RAG

NEXT.JS

Modern E-Commerce Engine

A comprehensive clothing e-commerce solution with real-time inventory, Stripe payments, and a sleek modern UI.

STRIPE

TAILWIND

AI Intelligence ecosystem

550+ agents ecosystem built using MCP protocols, focused on autonomous execution and system-wide automation patterns.

MCP

AUTOMATION