Maryam Mumtaz

AI Agent Engineer & Full-Stack Developer

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⎇ 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