

# MUHAMMAD SAMI

Forward Deployed Engineer (FDE) | AI Agent Engineer | Full-Stack Developer

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Resume Site](#)

## PROFESSIONAL SUMMARY

Forward Deployed Engineer and AI Agent Engineer based in Karachi, building production-grade AI agents and full-stack platforms at Marsa Empower. I lead architecture, development, deployment, and product delivery, moving solutions from concept to production with Next.js, React, TypeScript, Python, Django, n8n, and CrewAI. Over the past two years, I have built and shipped 500+ AI agents and delivered 7+ e-commerce platforms with Stripe and ShipEngine integration for international clients, including FolioGenerator.com. I am comfortable owning projects end-to-end, from requirements and architecture through deployment and client communication.

## CORE SKILLS

**AI & Automation:** OpenAI SDK, LangChain, CrewAI, RAG Pipelines, Vector Databases, Prompt & Context Engineering, HuggingFace, Chainlit, Streamlit, Model Context Protocol (MCP), n8n

**Frontend:** React, Next.js (15), TypeScript, JavaScript, Tailwind CSS, HTML/CSS

**Backend:** Node.js, Python, FastAPI, Django, REST APIs

**Data & Infrastructure:** PostgreSQL, MySQL, Sanity CMS, Docker, AWS, Vercel, DigitalOcean, CI/CD

**Leadership:** AI Agent Architecture, Technical Leadership & Product Strategy, Client Acquisition & Management, No-Code/Low-Code Delivery (Bubble, n8n)

## PROFESSIONAL EXPERIENCE

### Forward Deployed Engineer | AI Agent Engineer

Jan 2026 – Present

Marsa Empower • Karachi, Pakistan

- Designed, built, and operate a digital platform empowering individuals, ideas, and communities through value-driven content and growth solutions.
- Own end-to-end delivery across AI agent systems, product architecture, full-stack engineering, and deployment.
- Lead product development, digital presence, community growth, and engagement initiatives from concept to launch.
- Translate business and user needs into scalable technical workflows, reliable platforms, and measurable product improvements.

### Independent Freelance Engineer

2023 – Present

International Freelance Clients • Remote

- Design and build custom AI agents and workflow automations for international clients using **OpenAI SDK, LangChain, CrewAI, and n8n**, covering conversational AI, RAG-based retrieval, and business-process automation.
- Delivered end-to-end web solutions specializing in e-commerce, CRM systems, and analytics dashboards, including 7+ **e-commerce platforms** with Stripe and ShipEngine integration.
- Maintain a self-directed daily build practice ("100 Days of AI Agents") that has produced 500+ agents, used as a testbed for multi-agent orchestration and tool-use patterns before applying them to client work.
- Manage the full client relationship — acquisition, scoping, delivery, and communication — for a distributed international client base.

### Frontend Development Intern

Apr 2025 — May 2025

CodeAlpha • Remote

- Built responsive, high-fidelity user interfaces using modern React frameworks during a virtual internship.
- Optimized application performance and accessibility; recognized for adaptability and consistent delivery.

## FEATURED PROJECTS

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- **FolioGenerator.com** — AI-driven platform for automated professional portfolio creation, designed, built, and deployed end-to-end, including full-stack development and ongoing maintenance.
- **Marketplace 2025** — Furniture e-commerce platform built with Next.js 15 & Sanity CMS, with Stripe and ShipEngine integrated for order and shipping management.
- **Intelligent Chat UI** — Real-time chatbot with WebSocket-based streaming feedback and semantic search over conversation context.
- **Enterprise Admin Dashboard** — Visual analytics dashboard with dynamic data visualization and multi-role access controls (Next.js, Chart.js, Clerk).
- **100 Days of AI Agents** — Self-directed daily build challenge producing 500+ agents exploring long-term memory and tool-use patterns, now feeding into client and product work.

## CERTIFICATIONS

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- Claude with the Anthropic API — Anthropic
- Introduction to Model Context Protocol (MCP) — Anthropic
- AI Fluency: Framework & Foundations — Anthropic
- Model Context Protocol: Advanced Topics
- Prompt & Context Engineering
- Certified Cloud Applied Generative AI Engineer — GIAIC (Governor Sindh Initiative for GenAI, Web3, and Metaverse)
- Certified Cloud Applied Agentic-AI Engineer — PIAIC (Presidential Initiative for Artificial Intelligence and Computing)

## EDUCATION

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### Certified Cloud Applied Generative AI Engineer

Feb 2024 – Oct 2026

*Governor Sindh Initiative for GenAI, Web3, and Metaverse (GIAIC) • Pakistan*

### Certified Cloud Applied Agentic-AI Engineer

Aug 2024 – Apr 2026

*Presidential Initiative for Artificial Intelligence and Computing (PIAIC) • Pakistan*

### Intermediate (Pre-Engineering)

Jan 2023 – Jan 2025

*SM Govt. Science College • Karachi, Pakistan*

### Matriculation (Science Group)

Jan 2021 – Feb 2022

*Govt. Boys Secondary School • Karachi, Pakistan*

## ADDITIONAL

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**Languages:** English (Professional), Urdu (Native)

**Community:** Led a winter drive in Karachi (early 2025) distributing warm clothes to underserved communities

**Status:** Available for new opportunities