

Muhammad Shaies

Full-Stack Web Developer & AI Automation Engineer

Location: Islamabad, Pakistan | Phone: +92 328 5124464 | Email: mohammadshaies@gmail.com |
LinkedIn: linkedin.com/in/muhammad-shaies | GitHub: github.com/mohammadshaies

PROFESSIONAL SUMMARY

Versatile, performance-driven Full-Stack Web Developer and AI Automation Engineer with 4+ years of hands-on experience engineering high-throughput web applications, secure client portals, and autonomous multi-agent systems. Proficient across modern web stacks (TypeScript, Node.js, React, Express, PHP) and modern AI frameworks (LangGraph, Python, Vector RAG, ChromaDB). Track record of architecting scalable systems, automating manual operational workflows, and shipping clean, maintainable software on tight deadlines.

TECHNICAL SKILLS

Frontend:

TypeScript, JavaScript (ES6+), React, Next.js, HTML5, CSS3, SASS, Tailwind CSS, WebGL (Three.js)

Backend & APIs:

Node.js, Express, PHP (PDO), Python, FastAPI, REST APIs, WebSockets, Role-Based Access Control (RBAC)

AI & Automation:

LangGraph, Autonomous Agents (ReAct Loop), Dynamic Tool Calling, Vector RAG, ChromaDB, Prompt Engineering

Databases & Tools:

PostgreSQL, MySQL, Redis, Git, GitHub Actions, Docker, Linux Shell, Cloudflare

CMS & E-Commerce:

WordPress Core, WooCommerce, Custom Plugin/Theme Development, Payment Webhooks

Hardware & IoT:

IoT Prototyping (ESP32 / Arduino), Circuit Design, Sensor Networks, Embedded Systems

PROFESSIONAL EXPERIENCE

Full-Stack Developer & Technical Lead

2024 – Present

Alpha Digital Solutions

Islamabad, Pakistan

- Architected and deployed enterprise client web portals and agency applications using TypeScript, Node.js, Express, and PostgreSQL.
- Engineered the Alpha Crypto Management & Investor Portal featuring real-time WebSocket order feeds, multi-role authentication (RBAC), and automated trade settlement calculations.
- Developed high-conversion e-commerce applications with custom catalog filtering, mobile-first checkout flows, and payment webhook integrations.
- Improved API response times by 35% through Redis caching and optimized database indexing.

Lead Digital Strategist & Educator

October 2025 – Present

Taleemabad School

Islamabad, Pakistan

- Lead institutional digital media operations, managing social channels, video campaigns, and community engagement.
- Instruct students in computer science fundamentals, web development basics, and digital literacy.
- Mentor students in hands-on IoT robotics, circuit prototyping, and computational problem-solving.

Customer Operations & CRM Specialist

March 2024 – May 2024

Mars Capital

Islamabad, Pakistan

- Managed high-touch client inquiries and technical support requests, maintaining 99%+ customer satisfaction SLA adherence.
- Maintained CRM database integrity and streamlined ticket triage processes to expedite query resolution.

Operations & Systems Coordinator

September 2020 – May 2022

SLS School & College

Rawalpindi / Islamabad, Pakistan

- Supervised administrative and academic records across three campus branches.
- Digitized manual paper-based admissions workflows, accelerating processing velocity by 40%.
- Facilitated inter-departmental communications between executive leadership, academic staff, and parents.

KEY TECHNICAL PROJECTS

- Alpha Crypto Trading & Investor Portal

TypeScript, Node.js, Express, PostgreSQL, WebSockets, Redis

Institutional digital asset platform featuring live WebSocket order book updates, role-based access control (Admin/Investor/Trader), audit logging, and an automated settlement calculation engine.
- AstraCore AI — Autonomous Multi-Agent Reasoning Engine

Python, LangGraph, Vector RAG, ChromaDB, FastAPI

Autonomous multi-agent ReAct system executing goal decomposition, dynamic tool calling (CRM lookup), enterprise knowledge base retrieval via vector embeddings, and automated quote generation with zero-hallucination validation.
- Continental Sports E-Commerce Platform

Full-Stack Web, Custom Architecture, Payment Webhooks

Production e-commerce platform with faceted catalog search, dynamic cart state management, automated inventory synchronization, and responsive mobile checkout flows.
- Figmafiction YouTube & Digital Community

18.7K+ Subscribers, 100% Creator Managed

Self-founded and managed educational channel producing technical tutorials in UI/UX design, web engineering, and software tools for an active global audience of 18,700+ developers and designers.

EDUCATION

- Bachelor of Science in Computer Science (BSCS)

2023 – 2027 (Final Semester)

Virtual University of Pakistan
- Higher Secondary School Certificate (FSC Pre-Engineering)

2018 – 2020

Punjab Board of Intermediate and Secondary Education

CERTIFICATIONS & CREDENTIALS

- AI and Machine Learning Engineering Specialization

Issued: April 16, 2026

Stanford University (Coursera)
- Introduction to Data Science

Issued: October 17, 2025

Cisco Networking Academy