Muhammad Saad Khalid

Full Stack Developer · AI / Machine Learning Enthusiast

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PROFESSIONAL SUMMARY

Full Stack Developer experienced in building modern, database-driven web applications using React, Next.js, TypeScript, JavaScript, Node.js, Python, FastAPI, REST APIs, PostgreSQL, Supabase, authentication, third-party integrations, Docker, Linux, Git, and Vercel.

Experienced in developing business platforms, e-commerce systems, education management software, AI applications, dashboards, APIs, role-based systems, and production-oriented web applications, with a strong focus on clean architecture, maintainable code, database design, security, testing, deployment, and technical communication.

Microsoft Certified: Azure AI Fundamentals (AI-900) and government-certified (NAVTTC, PMYSDP) in Machine Learning, Deep Learning and Artificial Intelligence.

CERTIFICATIONS

MICROSOFT

Microsoft Certified: Azure AI Fundamentals (AI-900)

- Identify AI concepts and capabilities
- Implement AI solutions with Microsoft Foundry

Issued 27 June 2026
Credential ID 6BC6E7CC75553EFB
Certification number 0A8F4E-FFK41A

NAVTTC — GOVERNMENT OF PAKISTAN

Machine Learning / Deep Learning / Artificial Intelligence

Prime Minister's Youth Skills Development Program (PMYSDP) — Batch III

- Machine learning, deep learning and artificial intelligence fundamentals
- Course period 12 Feb 2026 – 20 May 2026 • Grade B

Issued 23 June 2026, Rawalpindi
Sr. No. 0164819 • Reg. I-25-141382 / B3-141382
Delivered by Corvit Networks Pvt. Ltd., Rawalpindi

PROFESSIONAL EXPERIENCE

Full Stack Developer — Devrolin

2026

3-month professional development engagement

- Developed and maintained full-stack web functionality using modern frontend and backend technologies.
- Built reusable React and Next.js interfaces focused on maintainability, performance, and responsive design.
- Worked with databases, REST APIs, authentication, Git/GitHub, deployment workflows, and third-party integrations.
- Debugged application issues, implemented fixes, and contributed to technical implementation and requirements.

Full Stack Developer — Freelance / Client Projects

- Developed business and product-oriented applications using Next.js, React, TypeScript, Supabase/PostgreSQL, REST APIs, and Vercel.
- Built customer-facing storefronts, dashboards, authentication systems, role-based workflows, database-backed applications, and administrative interfaces.
- Implemented authentication, authorization, validation, database policies, API integrations, and production deployment workflows.
- Worked directly with project requirements, debugging, deployment, maintenance, and technical problem solving.

Full Stack Developer / IT Team Head — RBS Pakistan

- Led web and IT-focused development work and contributed to the organization's digital systems and web presence.
- Worked across development, troubleshooting, technical coordination, and delivery of web solutions.

Founder / Product Developer — Univoma

- Founded and developed an online course platform for Pakistani students.
- Designed student and tutor workflows, course delivery functionality, authentication, and database-backed learning features.
- Worked across frontend development, backend architecture, database workflows, and product development.

LIVE PROJECTS

AutoExtend Pro
autoextendpro-backend.vercel.app

Full-stack vehicle protection platform • Next.js • Supabase • PostgreSQL • TypeScript

- Vehicle eligibility, protection plans, quotations, vehicle verification, claims, repair workflows, fleet/business processes, and customer-facing journeys.

GulParcel
gulparcel.com

E-commerce platform • Next.js • Supabase • TypeScript

- Product catalogs, categories, product details, cart, ordering workflows, customer authentication and delivery-related functionality.

Academy IT
academyit.vercel.app

IT services website • Next.js • React • TypeScript

- Professional digital presence presenting technology-focused services to clients.

RBS Pakistan
rbspakistan.pk

Business website / digital presence • Web

- Developed and maintained as part of web and IT development work.

SELECTED GITHUB PROJECTS

OBE System

Outcome Based Education Management System • Next.js • React • TypeScript • Supabase • Vitest

- PEO, PO, PSO and CO management with CO–PO articulation, assessments, attainment tracking, analytics, and reports.
- Role-based dashboards, approval workflows, audit logging, API route handlers, and RLS.

AI Study Assistant

Hybrid AI learning platform • Next.js • FastAPI • PostgreSQL • FAISS • Ollama • NVIDIA NIM

- Conversational explanations, PDF retrieval-augmented generation, embeddings, vector retrieval, AI-generated quizzes, and progress tracking.
- Urdu support, browser voice input, and hybrid local/cloud AI inference.

Multi-Modal AI System

Multimodal analysis API • FastAPI • PyTorch • Whisper • CLIP • GPT

- Accepts image, audio, and text inputs with speech transcription, image understanding, object detection, and reasoning workflows.

Transformers NLP Suite

Natural Language Processing • Python • Hugging Face Transformers

- DistilBERT sentiment classification and a multi-task NLP pipeline covering sentiment analysis, named entity recognition, and text summarization.

TECHNICAL SKILLS

FRONTEND
React, Next.js, TypeScript, JavaScript, Tailwind CSS, Responsive Web Design, React Hook Form, Zod

BACKEND
Node.js, Python, FastAPI, REST APIs, Next.js Route Handlers, API Integration

DATABASE
PostgreSQL, Supabase, SQL, Database Design, Database Migrations, Row Level Security

AUTH & SECURITY
Supabase Auth, JWT, SSR Authentication, RBAC, RLS, Secure API Design

AI / MACHINE LEARNING
Microsoft Azure AI, Azure AI Foundry, Machine Learning, Deep Learning, PyTorch, Hugging Face Transformers, FAISS, RAG, Whisper, CLIP, Ollama, NVIDIA NIM

DEVOPS / INFRASTRUCTURE
Linux, Ubuntu, Bash, SSH, Docker, Docker Compose, Nginx, Vercel

TESTING / QUALITY
Vitest, React Testing Library, Playwright, ESLint, TypeScript Type Checking

DEVELOPMENT TOOLS
Git, GitHub, VS Code, Postman

EDUCATION

BS Computer Science (BSCS)

PMAS Arid Agriculture University Rawalpindi • Rawalpindi, Punjab, Pakistan • Expected 2027

ADDITIONAL

- Strong professional spoken and written English; communicates technical concepts, requirements and troubleshooting clearly.
- Ubuntu, Bash, SSH, Nginx, networking and deployment administration; Git/GitHub workflows, branching strategies and collaborative development.