

USMAN AHSAN PERVEZ

AI Application Engineer — LLM-Powered Products · Full-Stack (MERN/Next.js) · AWS

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PROFESSIONAL SUMMARY

Full-stack engineer focused on building AI-powered products: integrates LLM APIs and AI-assisted development workflows into production MERN and Next.js applications and ships them on AWS with Docker, Kubernetes and CI/CD. Led full-stack delivery for US and UK clients at a software agency, and currently engineers real-time simulation software in C++/Rust — performance-critical experience that transfers directly to AI inference and streaming pipelines. Currently building a portfolio of retrieval-augmented generation (RAG) and AI-agent projects. Remote-work experience with UK clients since 2021. Based in Pakistan (UTC+5) with full overlap of Malaysia/Singapore and Gulf business hours; open to full-time, part-time and contract roles.

CORE SKILLS

AI & LLM: LLM API integration, prompt engineering, AI-assisted development tooling, AI product prototyping and workflow automation

Frontend: React, Next.js (SSR), JavaScript/TypeScript, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express, REST APIs, microservices, MongoDB, SQL

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, CI/CD (GitHub Actions, Jenkins)

Languages: JavaScript/TypeScript, Python (scripting), C++, Rust, Lua, Solidity

Systems: Real-time simulation integration, TCP/UDP telemetry, hardware interfacing

PROFESSIONAL EXPERIENCE

Flight Simulation Software Engineer

Feb 2025 – Present

FSDC AeroSolutions — flight training device manufacturer, Rawalpindi, Pakistan

- Develop real-time software for full-motion 6-DOF flight simulators in C++, Rust and Lua (SimConnect API, Prepar3D), integrating motion platforms, control loading, avionics and Varjo XR hardware.
- Use AI-assisted development to accelerate C++/Lua integration work and internal tooling.
- Deliver performance-critical, latency-sensitive systems — experience that transfers directly to optimizing AI inference and streaming pipelines.

Full-Stack Developer & Technical Lead

Mar 2024 – Feb 2025

Apex IT Solutions — software agency, Rawalpindi, Pakistan (US & UK clients)

- Embedded AI-assisted development and LLM-based tooling across the engineering workflow of an international software agency.
- Built production MERN and Next.js applications (SSR, microservices) for US/UK clients — the application layer for AI-powered product features.
- Shipped on AWS with Docker, Kubernetes and automated CI/CD (GitHub Actions, Jenkins) for zero-downtime releases.
- Architected a blockchain-based counterfeit-detection system (Ethereum smart contracts with encrypted QR verification) — hands-on experience productionizing emerging technology end to end.
- Mentored developers and managed delivery to budget and timeline for international clients.

Web Developer & E-commerce Specialist

Jan 2023 – Mar 2024

Apex Marketings — digital agency, Islamabad, Pakistan (clients in Pakistan, UK, US)

- Built client websites, e-commerce stores and NFT marketplaces (React, PHP/Laravel); automated delivery workflows to cut errors and speed up releases.
- Implemented Google Analytics 4 and Tag Manager analytics across an international client portfolio.

Technical Support & Developer

Nov 2021 – Dec 2022

NovTek — technology services company, UK (remote)

- Provided remote technical support and software development for UK clients — issue diagnosis, fixes and small feature work on web products, plus SQL database upkeep.

EDUCATION & CERTIFICATIONS

BS, Electrical & Electronics Engineering FAST-NUCES (National University of Computer and Emerging Sciences), Islamabad	2017 – 2021
Web 3.0 & Metaverse Developer (Certification) Panaverse	2022 – 2023

LANGUAGES

English (professional working proficiency) · Urdu (native)