

USMAN AHSAN PERVEZ

DevOps & Cloud Engineer — AWS · Docker · Kubernetes · Terraform · CI/CD

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PROFESSIONAL SUMMARY

DevOps-focused engineer with 4+ years spanning cloud delivery and real-time systems. As technical lead at an international software agency, managed AWS environments as code with Terraform, containerized applications with Docker, orchestrated them with Kubernetes, and built zero-downtime CI/CD pipelines in GitHub Actions and Jenkins. Currently engineers full-motion flight simulators (C++, TCP/UDP telemetry), giving an end-to-end view from application code to hardware. 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

Cloud: AWS (compute, networking and deployments for production client workloads)

Containers & Orchestration: Docker, Kubernetes

Infrastructure as Code: Terraform

CI/CD: GitHub Actions, Jenkins — automated, zero-downtime deployment pipelines

Architecture: Microservices, SSR web applications (MERN/Next.js), scalability and fault tolerance

Languages & Scripting: JavaScript/Node.js, Python (scripting), Lua, C++, SQL

Systems & Networking: TCP/UDP telemetry, IO mapping and interface validation, UART/SPI/I2C exposure, real-time hardware integration

AI Tooling: AI-assisted development and automation workflows

PROFESSIONAL EXPERIENCE

Flight Simulation Software Engineer

Feb 2025 – Present

FSDC AeroSolutions — flight training device manufacturer, Rawalpindi, Pakistan

- Build and integrate real-time simulation systems in C++, Rust and Lua, streaming telemetry over TCP/UDP between simulation engines and custom cockpit hardware through the SimConnect API.
- Apply systems-engineering discipline — IO mapping, interface validation and structured fault-finding — across full-motion 6-DOF simulator builds.
- Use scripting and automation (Python, Lua) to streamline test and integration workflows.

Full-Stack Developer & Technical Lead

Mar 2024 – Feb 2025

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

- Owned cloud infrastructure and delivery pipelines for an international software agency, managing AWS environments as code with Terraform.
- Containerized applications with Docker and orchestrated them with Kubernetes across client environments.
- Built automated CI/CD pipelines in GitHub Actions and Jenkins, enabling zero-downtime deployments and rapid iteration cycles.
- Streamlined development workflows with DevOps tooling (Docker, Kubernetes, Jenkins) across international projects, improving delivery timelines and reliability.
- Designed microservices architectures that scaled modules independently and remained responsive under increased user load.
- Established security protocols and code-quality standards while mentoring the development team.

Web Developer & E-commerce Specialist

Jan 2023 – Mar 2024

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

- Managed deployment pipelines for client web projects, automating workflows to reduce errors and accelerate delivery.
- Implemented analytics infrastructure (Google Analytics 4, Tag Manager) and technical SEO standards across client sites.

Technical Support & Developer

Nov 2021 – Dec 2022

NovTek — technology services company, UK (remote)

- Provided remote technical support and development for UK clients, assisting with deployments, environment maintenance and issue triage.
- Maintained SQL databases and documented recurring faults and fixes, improving resolution of repeat issues.

ADDITIONAL EXPERIENCE

- **Technical Assistant — Pakistan Television Corporation, Islamabad · Jun – Aug 2022:** operated and maintained broadcast transmission equipment and video/audio control systems for live national coverage, including the Commonwealth Games 2022 and the Pakistan vs Sri Lanka cricket series.

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)