

# UMAIR AHMED

Software Developer | Full-Stack, Backend & DevOps

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## PROFILE

Computer Science graduate and software developer with commercial experience in full-stack applications, client infrastructure and independent product engineering. Work spans React/Next.js, Python and Java backends, React Native mobile development and production Linux/Docker hosting. Built HostOps to address real troubleshooting challenges across multiple hosted sites; comfortable taking software from implementation through deployment and support.

## TECHNICAL SKILLS

**Languages & frameworks:** Python, Go, Java, TypeScript, JavaScript, SQL, Kotlin (Android); React, Next.js, React Native, Expo, Spring Boot, FastAPI, Tailwind.

**Infrastructure & delivery:** Linux, Docker/Compose, GitHub Actions CI/CD, Caddy, SSH, DNS/TLS, Hetzner VPS, host monitoring, incident diagnostics, Proxmox.

**Databases & applied AI:** PostgreSQL, MySQL, SQLite, ChromaDB, REST APIs, SentenceTransformers, Gymnasium, PyBullet, PPO, SAC, TD3.

## PROFESSIONAL EXPERIENCE

### Junior Software Developer | [Centauri](#)

Jan 2026 - Present

- Develop full-stack web applications and internal business tools with React, Next.js and TypeScript, spanning interfaces, forms, data flows and integrations.
- Rebuilt the Community Treasure website with Next.js, improving site responsiveness by 63% and introducing maintainable components and CMS-managed content.
- Contribute to confidential CRM-style tooling and improve existing interfaces through debugging, refactoring and accessibility-aware UI work.

### Founder & Software Developer | [Amadeus Digital](#)

Apr 2026 - Present

- Founded and run a UK software business delivering independent products and client website hosting, maintenance and technical support.
- Maintained 99.9% website uptime on self-managed Hetzner VPS deployments using Docker Compose, Caddy reverse proxy and GitHub Actions CI/CD.
- Migrated inherited WordPress/Elementor websites and handled registrar transfers, database/application setup and business-email DNS considerations.
- Investigate production faults across Docker containers, application health, SSH and reverse-proxy layers; built HostOps to centralise diagnostics and evidence.
- Work directly with business owners on technical requirements, including websites, managed hosting and scoped booking/payment workflows.

### IT Support & Customer Service Assistant | [Tutor World](#)

2024 - Jan 2026

- Provided first-line troubleshooting for web tools, accounts and devices, documenting issues and explaining solutions to non-technical users.

### Data Analysis Intern | [Interserve](#)

Summer 2020

- Supported data handling, reporting and database-related work alongside technical staff.

## SELECTED PROJECTS

### HostOps - VPS Monitoring & Diagnostics | [GitHub](#) | 2026

Go, Linux, SSH, Docker/Podman, Caddy/Nginx, SQLite | Open source

- Built a Go terminal dashboard to discover VPS workloads, domains, network listeners and proxy routes over SSH, with live CPU, memory, disk and site metrics.
- Implemented layered website checks across runtime, HTTP, DNS and TLS, combining findings with incident timelines and diagnostic confidence levels.
- Added SQLite-backed history, read-only security/readiness checks and structured AI-review exports, without replacing existing deployments.

### Qiro - Cross-Platform Mobile App | Pre-release

React Native, Expo, TypeScript, Android Kotlin, Apple Family Controls

- Independently developed a privacy-conscious prayer tracker and focus app with calendar-based logging, reminders, progress views and locally stored data.
- Integrated native Android functionality and Apple Screen Time/Family Controls; obtained the Family Controls entitlement and handled EAS builds, device testing and App Store review.
- Worked through subscription integration with RevenueCat and platform-specific permission, build and signing constraints.

### DocuQA - Document Q&A System | [GitHub](#)

Python, FastAPI, React, TypeScript, SentenceTransformers, ChromaDB

- Built a local retrieval-augmented generation system that ingests documents, chunks text, indexes embeddings and retrieves supporting context for LLM-backed answers.
- Connected a FastAPI backend to a React/TypeScript chat interface and debugged ingestion, retrieval, environment and API failure paths.

### Omelette RL Environment - Robotics Simulation | [GitHub](#)

Python, Gymnasium, PyBullet, Stable-Baselines3 | PPO, SAC, TD3

- Created a custom Gymnasium/PyBullet environment for a simulated Franka Panda robotic arm with continuous control, observations, actions and reward shaping.
- Trained PPO, SAC and TD3 for 10 million timesteps each (30 million total) to investigate learning behaviour in robotic manipulation tasks.

## ADDITIONAL INFRASTRUCTURE EXPERIENCE

- Operate a Proxmox home lab with Linux containers/virtual machines, remote access, resource allocation and self-hosted game services.
- Troubleshoot external connectivity issues involving double NAT, router changes, port forwarding and local-versus-public network access.

## EDUCATION & CERTIFICATION

### BSc Computer Science | Aston University | 2022 - 2025

Microsoft Certified: Power Platform Fundamentals (PL-900)