

OZAIR GHOGHA

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Qualification Profile

Analytical and innovative professional with a solid foundation in modern networking concepts and cloud platforms. Equipped with firsthand experience in designing, configuring, and troubleshooting network systems, combined with a keen understanding of cloud services, such as AWS, Azure, and GCP. Demonstrated proficiency in automating tasks, optimising infrastructure, and implementing security best practices. Committed to leveraging cloud-based solutions to drive operational efficiency, scalability, and business continuity. Eager to contribute to an organisation to facilitate seamless network and cloud integrations.

CORE PROFICIENCIES

Project Support | Network Configuration | System Administration | Technical Planning | Infrastructure | Monitoring | PC Hardware | Cisco | AWS | Azure | Windows | Linux | Software Development | Containerisation (Docker) | Virtual Machines | CI/CD | Cyber Security | Databases | Scripting | JavaScript | Java | Python |

PROFESSIONAL EXPERIENCE

Computer Systems Engineer

Jan 2021 to Aug 2023

TechSpert

- Coordinated the design and implementation of over 50 on-premises and cloud-native IT projects for enhancing infrastructure and substantially boosting client productivity.
- Collaborated with a startup FinTech firm to design and implement a 'well architected' cloud-based infrastructure, while concurrently creating and hosting a tailored website for their project, successfully scaling to support thousands of simultaneous users, and contributing to the generation of over £10,000 at launch.
- Architected, assembled, and configured over 30 high-performance computers and servers from the ground up, ensuring precise hardware selection, meticulous assembly, and seamless integration of software and operating systems to meet diverse client requirements leading to cost savings of up to 50% compared with 'off the shelf' solutions.
- Advised clients on complex technological choices by drawing on in-depth knowledge to deliver recommendations that resulted in up to a 40% cost reduction.
- Conducted comprehensive stress tests on systems using tools, such as Prime95, 3DMark, and AIDA64 to ensure peak performance and 100% stability under strenuous conditions while monitoring system vitals like voltages and temperature.
- Provided comprehensive technical support to clients, both on-site and remotely, utilising Remote Desktop to troubleshoot and resolve issues effectively saving a substantial amount by preventing unnecessary replacements of hardware.

Software Engineer

Dec 2021 to Feb 2022

Fanatics

- Engineered a robust web app for Fanatics, a premier sports merchandise e-retailer using technologies including Cloud, HTML, CSS, MySQL, JavaScript, PHP, and Bootstrap.
- Exploited global AWS services to host the application and database allowing for scaling and redundancy through Auto Scaling Groups, Load Balancing, Read Replicas, and scheduled database backups to S3 bringing uptime to 99.5%.
- Led a team of four developers to streamline task coordination, deadlines, and deployment via GitHub, Microsoft Teams, and Trello that resulted in a 20% acceleration in project completion.

- Conducted database security audits and implemented encryption mechanisms for sensitive data such as authentication.
- Established consistent communication with stakeholders through frequent meetings and demonstrations, while also enabling a 50% reduction in change requests by aligning closely with client objectives.
- Maintained superior app quality by adhering to Agile methodologies, delivering clean code, and conducting rigorous unit tests and code reviews.
- Optimised system efficiency with 50% reduction in app bandwidth consumption, while ensuring faster user experiences.

Project Experience:

- **Serverless Cloud Portfolio Website-** [AWS Demo](#) | [Vercel Deployment](#)
 - Designed, created, and launched a responsive, interactive portfolio website using Next.js, React, Tailwind CSS, Framer Motion in a Serverless manner.
 - Integrated a CI/CD pipeline using GitHub and AWS Amplify to automate testing and deployment, reducing development time by 60%.
 - Leveraged a suite of AWS services including Amplify, ECS, Docker, S3, EC2, Lambda, Route53, CloudWatch and more to ensure optimal website performance and a 99.95% uptime.
- **Home Lab Server-** [Build Writeup](#) | [Docker App Setups](#)
 - Constructed a high-efficiency 'Home Lab' server, achieving a 70% power reduction from previous iterations using enterprise-grade hardware.
 - Integrated a redundancy system with Parity and SSDs, enhancing reliability and read/write speeds tenfold.
 - Optimised resources by configuring 30+ Docker containers, resulting in 80% less consumption than VMs and harnessed virtualisation with hardware passthrough for both Windows and Linux.
 - Provided DDoS-protected game hosting for titles like Minecraft, ARK and Valheim supporting 100+ players.
 - Certified web application security through techniques like NGINX reverse proxying and Cloudflare tunnelling with SSL/TLS certifications paired with MFA authentication.
 - Enabled secure, global VPN access with Tailscale and the WireGuard protocol providing an encrypted tunnel.
 - Ensured Docker 'app-data' reliability at 99.99% with regular scheduled automated cloud backups to AWS S3.
 - Bolstered network security by blocking 90% of ads and trackers using a DNS Sinkhole with DNSSEC capability.
- **Photogrammetrically Built Driving Simulator-** [Article](#)
 - Developed an immersive driving simulator using Unreal Engine, C++, Blender, RealityCapture, Adobe Creative Cloud and DJI Drones as part of my university final year project.
 - Processed over 10,000 drone photographs from various angles to generate a high-resolution 3D mesh of the real-world roads in Switzerland along with a realistic vehicle model with physics and animations.
 - Implemented user input for controllers, steering wheels and pedals providing an authentic driving experience.

EDUCATION & CERTIFICATIONS

Bachelor of Science with Honours in Computer Science, *Graduated 2023*
The University of Salford

Cisco Certified Network Associate (CCNA) 200-301

Microsoft AI Skills Challenge (AI & ML)

AWS Certified Solutions Architect Associate SAA-C03 [Estimated Oct 2023]