Muhammad Obaid ur Rehman

IT Support • System Administration • Cybersecurity

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PROFESSIONAL SUMMARY

IT support and systems professional with three years as IT Head of an organization, now completing an MSc in Cyber Security at Arden University Berlin. Experienced in IT support and troubleshooting, Windows and Linux systems, user access, networking and backups. Lab experience in penetration testing, digital forensics, SIEM monitoring, hybrid cloud and automation, plus an MSc dissertation evaluating machine-learning deepfake detectors. Clear communicator with technical and non-technical users and strong documentation habits. Seeking IT Support, System Administration or Cybersecurity roles in Germany.

TECHNICAL SKILLS

Support & Service: IT support and troubleshooting (hardware, software, network), user accounts and access, clear communication with non-technical users

Systems & Identity: Windows 10/11, Windows Server, Active Directory, Group Policy, Microsoft Entra ID (Azure AD) concepts, Exchange Server 2019, SQL Server 2019, Microsoft 365

Linux & Cloud: Linux (Ubuntu, Fedora, RHEL), command line, AWS, Microsoft Azure, Oracle Cloud, Proxmox virtualization

Automation & Data: Python, Ansible, Kubernetes, PyTorch, scikit-learn, Power BI

Networking: TCP/IP, DNS, VLANs, ACLs, routing and switching, Wi-Fi/LAN troubleshooting, firewalls and VPN fundamentals

Security: Vulnerability assessment and penetration testing (Nmap, Nikto, Gobuster, sqlmap), OWASP WSTG, digital forensics (FTK Imager), SIEM, NIST CSF, Zero Trust, adversarial ML testing

PROFESSIONAL EXPERIENCE

IT Head | The Laboratory, Pakistan | Apr 2022 – Apr 2025

- Managed IT infrastructure, systems and equipment, keeping daily operations running smoothly.
- Provided IT support and troubleshooting for hardware, software and network issues.
- Administered user systems, access control and Windows-based environments.
- Implemented backups, updates and basic security measures.

Freelance Website Administrator | TheYogaNomads, USA (remote) | 2023 – 2025

- Maintained a live WordPress site: uptime, performance, updates, plugins, backend administration and basic SEO.
- Provided remote troubleshooting and kept a non-technical client informed while coordinating improvements.

Student Representative & Founding Member, Computing Club | Arden University, Berlin | 2025 – Present

- Represent students in academic and administrative discussions, including programme validation.
- One of the pioneers behind the Arden Computing Club Berlin, organizing tech workshops, day trips and cultural festivals, and helped run the Berlin graduation ceremony 2026.

Community & Technical Support Volunteer | Plug, Innovative Developers Ltd, UK (remote) | 2018 – Present

- Provide technical support, moderation and onboarding for the Plug community; designed and administer its official Discord server.

TECHNICAL PROJECTS

AI-Based Deepfake Detection with Robustness Evaluation | MSc Dissertation | 2026

- Built and compared four detectors of increasing complexity (logistic regression, HOG/LBP with linear SVM, MobileNetV2, EfficientNet-B0) in Python with PyTorch and scikit-learn on 330,000+ face images, trained entirely on CPU-only laptops.
- Raised in-domain accuracy from 73.6% to 94.6%, then showed cross-dataset accuracy stays near chance, with the generalization gap widening from 24.7% to 44.2%. A threshold diagnostic identified it as a representation failure rather than a calibration one.

- Robustness testing showed distortions that remove fine detail cut accuracy by up to 38.5 points, and an FGSM white-box adversarial attack dropped accuracy from 94.3% to 5.2%, with fakes confidently labelled as real.
- Packaged the model as an offline desktop app (tkinter) and a command-line tool, deliberately avoiding a local web server so a trust tool does not open network ports.

Vulnerability Assessment & Penetration Testing | PTES methodology

- Performed reconnaissance, service enumeration and web scanning with Nmap, Nikto and Gobuster, and reported findings with remediation for patching, hardening and access control.

SQL Injection Assessment | OWASP WSTG

- Validated SQL injection in a payroll web app with sqlmap, demonstrated authentication bypass, classified risk with STRIDE and the CIA triad, and recommended parameterized queries and least privilege.

Digital Forensics: Insider Threat Investigation

- Preserved evidence with MD5/SHA-1 hashing and analysed Windows artefacts in FTK Imager to reconstruct user activity, delivering a structured forensic report.

Hybrid Cloud & Automation

- Built a Proxmox environment (Ansible control node, Windows Server 2019, Apache container), a three-replica Kubernetes Python app and two load-balanced Oracle Cloud Linux instances, all managed with Ansible.

Windows Server, Active Directory & Secure Network Design

- Administered AD users, groups and Group Policy with backup and recovery. Designed a multi-site Cisco network with VLAN segmentation, least-privilege ACLs, switch hardening and SSH-only management.

EDUCATION

MSc Cyber Security | Arden University Berlin | 2025 – 2027
Dissertation: AI-Based Deepfake Detection Using Machine Learning with Robustness Evaluation

BSc Computer Science | Iqra University, Karachi | 2017 – 2022

CERTIFICATIONS & TRAINING

- Microsoft Certified: Azure Fundamentals (AZ-900); Scrum Fundamentals Certified
- Coursework: AWS Cloud Solutions Architect Associate & AWS Networking Basics
- Coursework: Alnafi EduQual Cloud & Cyber Security Diploma; Alnafi EduQual AIOps Diploma
- WSCubeTech Ethical Hacking Course

LANGUAGES & WORK AUTHORIZATION

English – C2 (EF certified) | German – A1 (actively learning)

Valid German student residence permit with permission to work.