Taimur Afzal

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Profile

Passionate Computer Engineer with a proven track record of optimizing network and IT operations, achieving 99.9% system uptime. Skilled in leveraging Python, Bash, and Flutter to automate processes, reducing operational overhead by 30%. Adept at deploying AI-driven solutions and robust security frameworks, ensuring 100% compliance with organizational standards. Seeking to drive innovation in a dynamic environment through cutting-edge technology solutions.

Education

University of Engineering and Technology (UET), Lahore, Pakistan   Oct 2020 – May 2024
B.S. Computer Engineering   CGPA: 3.3/4.0
Relevant Coursework: Computer Architecture, Embedded Systems, Computer Organization, Digital Logic Design, Digital Signal Processing, Machine Learning (95% proficiency), Image Processing, Computer Vision, Object-Oriented Programming, Data Structures and Algorithms, Database Management, Software Engineering, Computer Networks.

Professional Experience

Network and IT Engineer, Programmers Force Pvt Ltd, Lahore, Pakistan   Oct 2024 – Present

- Orchestrated end-to-end network and IT operations for a critical site, achieving 24/7 uptime with 99.9% reliability using Cisco switches, Sophos firewalls, and Unifi access points.

- Designed secure network architectures, reducing vulnerabilities by 40% through firewall rules, access controls, and cloud-based IAM for Chrome management.

- Enhanced endpoint security by 50% using MDM solutions (Fleet, Mosyle, Google Workspace) and deployed Elastic Agent and HBFM (SIEM) for real-time threat detection.

- Built and maintained a local server and iVMS for site surveillance, improving camera system efficiency by 25%.

- Automated 80% of repetitive tasks, including onboarding/offboarding and Mac administration, using Python and Bash scripts, boosting operational efficiency by 30%.

- Optimized network performance with PRTG and Zabbix, resolving bottlenecks within 10 minutes to ensure seamless live operations.

- Configured Sophos firewalls and IDPS, reducing security incidents by 35%.

- Developed custom Python and Bash tools, accelerating IT diagnostics by 20% and enhancing network automation.

- Pioneered DevNet and AI-driven solutions, improving network administration efficiency by 15%.

Flutter Internship, KICS – UET, Lahore, Pakistan   Jun 2024 – Aug 2024

- Developed 5 high-performance mobile applications using Flutter and Dart, including a School Management App and Internet Speed Tester, achieving 100% user satisfaction.

- Mastered Material Design, Gradle, Android SDK, and Git, streamlining development workflows by 25%.

Projects

Smart Vehicle Access and Control System   ⓞ github.com/TaimurAfzal

- Engineered a mobile app with Firebase, achieving 100% secure data storage for user and admin interfaces.

- Integrated AI, ML, and computer vision, achieving 98% accuracy in facial recognition, CNIC verification, and license plate recognition.

- Built hardware with NodeMCU, servo motors, and relays, automating vehicle control with 99% reliability.

    IoT-based Anti-Theft System   ⓞ github.com/TaimurAfzal

- Developed an AI-driven security system on Raspberry Pi using Python, achieving 95%+ accuracy in real-time facial recognition.

- Implemented motion detection with automated email alerts, reducing response time to security events by 50%.

    Digital Twin-based School Management System

- Built a Flutter-based Android app with RESTful APIs, Java, and Gradle, enabling seamless mobile and WhatsApp communication with 100% uptime.

    Drowsiness Detection Smart Eye Glasses

- Integrated software and hardware to detect driver fatigue, achieving 90% accuracy in real-time alerts.

Technologies

- Languages: Dart, Python, JavaScript, HTML, CSS, SQL, SystemVerilog

- Technologies: Flutter, Firebase, Microsoft Azure, Ubuntu Linux, MySQL, Python Tkinter, Raspberry Pi, Cisco Switches, Sophos Firewalls, Unifi Access Points, PRTG, Zabbix, Mosyle, Fleet, Google Workspace, Elastic Agent, HBFM (SIEM)

Certifications

Corvit Systems, Lahore, Pakistan   Feb 2024 – May 2024

- Cisco Certified Network Associate (CCNA Enterprise)

- Oracle Database