Muhammad Zakaria Masood

Software Engineer — AI & Automation Specialist — Cloud & Backend Developer

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Summary

Software Engineer specializing in **Al-powered applications** and **workflow automation**, with expertise in building intelligent, scalable, and secure systems. Experienced in developing enterprise-grade solutions using **Python**, **Node.js**, **and cloud technologies**. Passionate about transforming complex problems into smart, automated solutions that reduce operational costs by 60% and save 20+ hours weekly through intelligent automation.

Professional Experience

Backend Developer

Hamburg, Germany (Remote)

(Gosign GmbH)

01/2024 - Present

- Built custom n8n automation workflows to streamline business processes, reducing manual workload by 70% and improving operational efficiency.
- Engineered scalable backend solutions for international clients using **Node.js**, **Express**, **and PostgreSQL**, ensuring high performance and maintainability.
- Developed enterprise-scale **Al-powered Chat-Bot platform** with **Next.js** and **Azure Bot Services**, supporting multiple Al models for text, image, and video processing.
- Implemented features including Deep Search, letterhead generation, dynamic workflows, and automated delivery systems.
- Built and optimized RESTful APIs, improving data processing speed and reliability by 40%.
- Developed GDPR-compliant TYPO3 web extensions in PHP, ensuring full regulatory alignment.
- Integrated Microsoft Azure services (AI, App Services, Entra ID) and Supabase to enhance automation and enterprise security.
- Collaborated in Agile sprints, leading backend tasks, mentoring junior developers, and delivering features on time.

Projects

Enterprise AI Chat-Bot Platform

(Live Demo)

06/2024 - Present

- Developed cross-platform Al-powered chatbot platform with Node.js & Next.js, secured by Azure Entra ID.
- Supports multiple AI models for text, image, and video processing with features like **Deep Search, letterhead generation**, and automated workflows.
- Designed for enterprise-scale customer interaction and workflow automation, reducing response time by 70%.
- Built with PostgreSQL, Supabase, NLP, and Al Automation technologies.

Al-Powered Biometric Gait Recognition System

(GitHub) — (Research Paper)

10/2023 - 04/2024

- · Developed Al-powered biometric system identifying individuals by gait even under covered body attire.
- Built custom multi-angle video dataset, extracted landmarks with **Mediapipe**, trained **Decision Tree & Random Forest** classifiers.
- Achieved 98% accuracy, proving gait as reliable alternative to facial recognition.
- Technologies: Machine Learning, Mediapipe, Random Forest, Decision Tree, Python.

Enterprise Campus Network Design

(University of Sargodha)

06/2023

- Designed secure campus network infrastructure using **Cisco technologies** for 10,000+ users.
- Implemented VPN connectivity, VLANs, routing protocols, and enterprise security policies.
- Configured firewalls, IDS/IPS systems, ensuring 99.9% uptime and GDPR compliance.

Education

BS Information Technology

Sargodha, Pakistan *2020-2024*

Relevant Courses: Data Structures & Algorithms, Database Systems, Internet Of EveryThing, Infromation Security, Network Security, System & Network Administration, Cyber Security, Network Design And Management

Skills

- AI & Automation: n8n, Power Automate, Supabase Functions, custom API integrations. TensorFlow, PyTorch,
 OpenAI API, Mediapipe, YOLO, Computer Vision, NLP, and custom model training.
- Full-Stack Development: React, Next.js 14, TypeScript, Tailwind CSS, Framer Motion (Frontend). Node.js, Express, Python, PHP (Backend). RESTful APIs, GraphQL, WebSockets.
- Cloud & DevOps: Microsoft Azure (Al Services, App Services, Entra ID), AWS, Docker, containerization, CI/CD pipelines, GitHub Actions, Linux administration.
- Databases: PostgreSQL, MongoDB, MySQL, Supabase, Firebase. Query optimization, database design, and migration.
- IT Infrastructure: Network design, VPNs, routing, switching, enterprise security, GDPR compliance, penetration testing.
- **Soft Skills:** Strategic planning, problem-solving, **Agile/Scrum methodologies**, team collaboration, mentoring, excellent communication.

Certifications

- Microsoft Power Platform Practitioner (Sept 2024) Microsoft Learn
- Certified in Cyber-Security (Aug 2023) (ISC)²
- Python Programming (Nov 2023) W3Schools