Muhammad Zakaria Masood

Software Engineer — AI & ML Specialist — IT Infrastructure Expert

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Summary

Software Engineer with expertise in **AI-driven development, scalable web applications, and IT infrastructure**. Passionate about integrating **ML & cloud solutions** to drive innovation, security, and performance optimization.

Professional Experience

Software Engineer *(Gosign.de)*   **Hamburg, Germany** *01/2024 - present*

- Developed GDPR-compliant web extensions using **TYPO3 (PHP)**, ensuring regulatory compliance.

- Implemented Microsoft **Azure AI services, App Services, and Entra-ID** for secure authentication and automation.

- Contributed to an internal **Chat-Bot project**, improving operational efficiency with **Node.js** and **Next.js**.

- Collaborated in an Agile environment, enhancing teamwork and time management.

Projects

Custom Chat-Bot *(Gosign.de)*   *06/2023*

- Developed a web-based **Chat-Bot** using **Node.js** and **Next.js** frameworks.

- Integrated multiple NLP models with custom prompts for each team to enhance automation.

- Implemented **Microsoft Azure authentication** and **Azure Entra-ID group allocation** for access control.

- Improved internal workflow efficiency and response accuracy for organizations.

Gait Recognition Research Using Machine Learning for Covered Body Attire *(Report)*   *10/2023 - 04/2024*

- Developed a high-accuracy **biometric gait recognition system** (98%) for individuals with covered attire.

- Trained **Decision Tree and Random Forest classifiers**, optimizing biometric security identification.

- Achieved **98% model accuracy**, surpassing traditional gait recognition benchmarks.

- Addressed privacy and security concerns in biometric authentication through **AI-based solutions**.

Campus Network Design *(University of Sargodha)*   *06/2023*

- Designed and configured a **secure campus network** using **Cisco Packet Tracer** technologies.

- Implemented **VPN connectivity** between the main campus and sub-campuses.

- Configured **secure protocols** and applied **network security best practices**.

IoT-Based Transport Tracking System *(University of Sargodha)*   *01/2023 - 02/2023*

- Developed an **IoT-based real-time transport tracking system** using **NodeMCU ESP8266** and **GPS**.

- Designed and configured the module to provide real-time tracking and monitoring.

Streamlining Client Locker Allocation *(Resource Allocation with Email Automation)*   *06/2024 - 06/2024*

- Developed a **Python Script** to automate **client locker allocation**, optimizing resource usage.

- Enhanced **resource utilization** through an optimized allocation process.

- Implemented **email automation**, sending 1000+ custom emails in 10 minutes, including locker metadata.

Online Courses & Certifications

- Certified Microsoft Power Platform Practitioner (Sept 2024) - Microsoft

- Certified in Cyber-Security (Aug 2023) - (ISC)²

- Python Exercises (Nov 2023) - w3school

Education

BS Information Technology *University of Sargodha* **Sargodha, Pakistan** *2020-2024*
Relevant Courses: Object Oriented Programming, Data Structures, Database Systems, Database Administration, System And Network Administration, Internet of Things, Cyber Security, Information Security, Network Design And Management

Skills

- **Web & Application Development:** Expertise in building scalable solutions using **MERN Stack (MongoDB, Express.js, React.js, Node.js), TypeScript, RESTful APIs, and GraphQL**. Experienced in UI/UX with **Material-UI, Tailwind CSS**.

- **Backend & Database:** Skilled in **MongoDB, PostgreSQL, MySQL, and Firebase**. Implemented authentication mechanisms with **JWT, OAuth, and Firebase Auth**.

- **Cloud & DevOps:** Hands-on experience with **Microsoft Azure, AWS, and Docker**. Implemented **CI/CD pipelines, GitHub Actions**, and managed **Linux servers**.

- **AI & Machine Learning:** Experienced with **TensorFlow, PyTorch, and OpenAI API**. Specialized in **data processing, model training, and deployment**.

- **Soft Skills:** Strong in **strategic planning, problem-solving, team collaboration, and Agile methodologies**. Excellent **communication and adaptability**.