

Ahsan Naseer

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WORK EXPERIENCE

INTERNSHIP – HARIPUR
Department Sino Pak Center for Artificial Intelligence | **Website** <https://paf-iaست.edu.pk/spcai/>
Link <https://drive.google.com/file/d/1NbUR8DcRE9gzuCD-sBtADHvIrV7VhbLq/view?usp=sharing>

EMPOWERING UNDER-PRIVILEGED POPULATION WITH AI-BASED ICT AND ENGINEERING KNOWLEDGE TRANSFORMATION. – 08/08/2023 – 06/10/2023

-Developed and deployed lightweight AI applications using Python, optimized for low-resource environments.
-Set up and maintained Raspberry Pi and Arduino devices for community tech labs and remote learning hubs.
-Trained 4 to 5 Named Entity Recognition (NER) models using Python and the spaCy library.
-Contributed to data collection, preprocessing, and annotation for localized ML model training (image, audio, text datasets).

APPRENTICESHIP – HARIPUR
Department Sino Pak Center for Artificial Intelligence

HIGH PERFORMANCE COMPUTING (HPC) – 01/11/2024 – CURRENT

Deployed and managed VMs using Proxmox VE.
Configured and optimized Proxmox-based cloud systems.
Implemented cloud solutions for HPC workloads.
Monitored performance and allocated resources efficiently.
Automated tasks using shell scripting and Proxmox API.
Assisted in system upgrades and issue resolution.

EDUCATION AND TRAINING

01/09/2020 – 09/08/2022 Haripur, Pakistan
INTERMEDIATE Sir Syed Model School and College

Field of study Pre-Engineering | **Final grade** A

17/10/2022 – CURRENT Haripur
BACHELOR OF SOFTWARE ENGINEERING Pak-Austria Fachhochschule Institute of Applied Science and Technology

Website <https://paf-iaست.edu.pk/>

TECHNICAL SKILLS

Programming Languages: HTML, CSS, JavaScript, Python, PHP, C++
Databases: MySQL, MongoDB
Tools & Platforms: Visual Studio Code, Git, Vercel, Linux, Proxmox, Docker,
DevOps & Cloud: GitOps, Virtualization, Cloud Computing
Additional Skills: AI & Machine Learning, IoT, Arduino Programming, High-Performance Computing (HPC), Web Development

● **PROJECTS**

Cold Email Generator

Developed using Streamlit and LangChain, with Groq API integration. Automated cold email generation by analyzing job links and user input. Implemented context-aware, personalized content creation using an open-source LLM for professional outreach.

Link <https://github.com/ahsan719/cold-email-generator>

Github Repo Vulnerability Scanner

Developed an AI-powered GitHub repository vulnerability scanner using Python, Trivy, and Groq API (LLaMA 3) to automate security scans and generate remediation recommendations. Built features for detecting vulnerabilities with a clean Gradio UI. Implemented repository cloning, scan automation, AI-based analysis, and report generation with GitHub API integration for private repo support.

Link <https://github.com/ahsan719/github-vulnerbility-scanner>

Arduino Based Fire Detection Alarm

Developed an Arduino-based Fire Detection Alarm system using a flame sensor and Arduino Uno. Programmed in C++ to monitor the sensor and activate a buzzer alarm upon detecting flames. Implemented real-time detection and immediate audible alerts for rapid response to fire incidents.

● **HONOURS AND AWARDS**

Google IT Support Professional Certificate - Coursera

Completed all 5 modules:
Technical Support Fundamentals
The Bits and Bytes of Computer Networking
Operating Systems and You: Becoming a Power User
System Administration and IT Infrastructure Services
IT Security: Defense Against the Digital Dark Arts

Link <https://coursera.org/share/8d4eb16fe90263654feb7c11043b421e>

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C2	B1	B2	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user