



Ahsan Naseer

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WORK EXPERIENCE

INTERNSHIP – HARIPUR

Department Sino Pak Center for Artificial Intelligence | **Website** <https://paf-iast.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-iast.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