

# Hassan Ali

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## About Me

A passionate BS Software Engineering student (5th semester) at PAF-IAST, Haripur, with expertise in Python programming, automation, chatbot development, high-performance computing, and virtualization. Skilled in Docker, AI, ML, and web development, with hands-on experience in real-world applications. Currently an apprentice at the Sino-Pak Center for AI, specializing in high-performance computing. Dedicated to leveraging advanced technologies to create innovative solutions.

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## Education

**Pak-Austria Fachhochschule Institute of Applied Sciences and Technology**

**BS Software Engineering**

October 2022 – Present

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## Experience

### Apprenticeship in High-Performance Computing (HPC)

**Sino-Pak Center for Artificial Intelligence (SPCAI)**

November 2024 – Present

- Assisting in the configuration and deployment of high-performance computing clusters for AI workloads.
- Hands-on experience in managing Kubernetes clusters and virtualized environments.

### Software Developer

**Technik Nest**

October 2024 – Present

- Developing and optimizing software solutions tailored to client needs.
- Contributing to innovative projects involving AI and ML applications.

## **Intern – Machine Learning**

**Code Alpha (Remote)**

**August 2024 – September 2024**

- Worked on developing and fine-tuning machine learning models for real-world use cases.
- Delivered efficient solutions for processing and analyzing large datasets.

## **Intern – Natural Language Processing (NLP)**

**SPCAI**

**July 2023 – September 2023**

- Gained hands-on experience in developing NLP-based AI solutions.
- Worked with advanced text processing tools and frameworks.

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### **Projects**

- **Arduino-Based Incubator**
- **Arduino-Based Fire Alarm System**
- **Chatbot Using Open-Source LLM**
- **NLP and ML models Training**
- **Cold Email Generator for Technik Nest**

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### **Skills**

#### **Technical Skills**

- **Programming Languages:** Python, C++
- **Frameworks & Tools:** Django, Flask, Docker, Jenkins, Proxmox Virtualization, Git & GitHub, Linux (Kali Linux & Ubuntu)
- **Specializations:** Custom AI Solutions, Chatbot Development, IoT and Arduino Programming, Cloud Computing and Networking, Project Management, Linux Management
- **Database Management:** MongoDB
- **Web Development:** Full-Stack Web Development
- **IDE:** Visual Studio Code

#### **Soft Skills**

- Communication
- Presentation
- Problem-Solving

## Languages

- Urdu: Fluent (Native)
  - English: Proficient
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## Extracurricular Activities

- AICE 24: 3-Day Conference Organizing Team Member at PAF-IAST
  - Uraan Semester Project Exhibition Organizer (2023 and 2024)
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