MUHAMMAD AHSAN

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HIGHLIGHTS

Highly motivated and passionate student software engineer seeking an opportunity to leverage technical skills, academic knowledge, and problem-solving abilities. I am eager to collaborate with industry professionals to further enhance my skills and make meaningful contributions to the field of software engineering & AI.

EDUCATION

B.S Software Engineering (Expected Graduation: 2026)
National University of Science and Technology (NUST), Islamabad
CGPA: 3.70
F.Sc Pre-engineering (2022)
Matriculation (2020)

EXPERIENCE

Freelancing (Fiverr & Upwork)
Aug-2024 - present

Mach Vis Lab – SEECS, NUST (ML/DL Intern)
Duration: 3 months [June-2024 to Aug-2024]

Mindstorm Studios (Game Dev Intern)
Duration: 3 months [June-2024 to Aug-2024]

Hack Club NUST – Social Media Marketing (Deputy Director)
Duration: 12 months [September-2023 to September 2024]

D.G Cement Company Ltd (IT Intern)
Duration: 1 month [Jun-2023 to July-2023]

PROJECTS

- **Extension on Casey AI (Freelance project)**
  -- a generative AI tool for scanning legal docs and generating QA reports on them. Also has an integrated Chat bot.
  -- Skills: RAG chat bot, FastAPI backend for AI, LangGraph workflows

- **GPT Collab Function Creator (Freelance project)**
  -- a generative AI code generator for solving any problem guided by Human-in-loop feedback.
  -- Contributed an extension to solve SWE bench problems
  -- Skills: Elasticsearch, Agentic workflows using

SOFT SKILLS
- Proactive
- Collaboration
- Spoken English
- Continuous Learning
- Project Management

TECHNICAL SKILLS
- RAG (LlamaIndex)
- Agentic Workflows (LangGraph)
- LangChain
- Distilabel
- Pytorch, TF, Transformers
- Flutter
- Android SDK
- MERN, Laravel

CERTIFICATION
- OOP-I (Cisco Acdemy-2023)
- OOP-II (Cisco Academy-2023)
- Data Analysis – I (Google – 2023)
- C Language (Programming Hero-2022)
- C++ (Programming Hero-2022)
- ML A to Z (Udemy)
- Web Dev Bootcamp 2023 (Udemy)
- DL for CV with Python and TensorFlow (YT)

LangGraph, Prompting techniques, RAG

- **Synthetic Data Generation Tool (Freelance project)**
  --an open-source tool that can be used to generate synthetic data using different techniques e.g. Agent Instruct, Instruction Synthesizer, Genstruct, Bonito, etc for LLM training & finetuning.
  --Skills: Distilabel, Transformers, LLM pipelines

- **Automated Number Plate Recognizer – Desktop App**
  --a state of the art application that utilizes the power of Yolo object detection & tracking with TrOCR to read license plates from any image of video source.
  --Skills: Ultralytics Yolov8 (finetuned), Microsoft's TrOCR, PyQT6

- **Metro Route Finder Islamabad – Flutter Mobile App**
  --a state of the art application that uses Google Maps API and finds the appropriate Metro Bus route between source and destination location
  --Skills: Flutter UI, State Management, Google Maps APIs

links on LinkedIn

HOBBIES

- 3D Modeling in AutoCAD and Blender
- Cycling, Swimming and Playing Badminton