MUHAMMAD AHSAN

Cell: +92 349 6785199   +92 326 1785199
Email: ahsanirfan@gmail.com
https://www.linkedin.com/in/muhammad-ahsan-b6796124b

SOFT SKILLS

- Proactive
- Curiosity
- Technical Mindset
- Collaboration
- Problem Solving
- Spoken English
- Continuous Learning
- Project Management

TECHNICAL SKILLS

- C/C++, C#, Python, Java, Dart, HTML, CSS, JS, SQL
- Flutter, Android SDK, Bootstrap, Express.js, Node.js, Mongo DB, MSSQL, MySQL
- TensorFlow, PyTorch, Yolov8, Sk-learn, Distilabel, LangChain, Transformers
- AutoCAD 2D/3D
- Blender Modeling & Animation
- Unity Game Dev

CERTIFICATION

- OOP-I (Cisco Acdemy-2023)
- OOP-II (Cisco Academy-2023)
- Data Analysis – I (Google – 2023)
- C Language (Programming Hero-2022)

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

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

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

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

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

PROJECTS

- **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

- **Prompting Techniques on SWE bench (Freelance project)**
  - --implemented different prompting techniques like CoT, ToT, MoA, Reflexion, Self-consistency etc to generate responses for SWE Bench dataset
  - --Skills: Distilabel, Transformers, LLM pipelines, Prompt Engineering, Chat templating

- **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

- C++ (Programming Hero-2022)
- ML A to Z (Udemy)
- Web Dev Bootcamp 2023 (Udemy)
- DL for CV with Python and TensorFlow (YT)

source and destination location
--Skills: Flutter UI, State Management, Google Maps APIs

- **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

- **Vele Piggies Video Game (Mindstorm Studios Game Jam 2024)**
  --a 2D top scrolling video game based on slingshot and choices mechanism.
  --Skills: Unity Engine, C#, Graphic Designing

- **Brave Dave Video Game in C++ using SFML Library**
  --a 2D platformer side scrolling game made using pure concepts of OOP
  --Skills: OOP concepts, OpenGL rendering

- **Bank Management System (Desktop + Android)**
  --a functional Banking App made for both Desktop (PyQt5) and Android (Java + Android SDK), and deployed on PostgreSQL
  --Skills: Python, Database Integration, Java Design Patterns, Android SDK

links on LinkedIn

HOBBIES

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