

Hafsa Ahmed

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Home: (Pakistan)

WORK EXPERIENCE

Software developer

Codes Logistics [03/01/2022 – Current]

City: Islamabad

Country: Pakistan

Vue.js, Python(Flask, CNN and YOLOV7)

Internship

Business Experts Pakistan [15/06/2021 – 15/09/2021]

City: Karachi

Country: Pakistan

Python, Django Developer and Tester

Internship

Azam System and Technologies [15/01/2021 – 20/03/2021]

City: Rawalpindi

Country: Pakistan

Web developer, Magento

EDUCATION AND TRAINING

BS(Software Engineering)

COMSATS University Islamabad, Wah Campus [2016 – 2020]

FSC(ICS)

Global College System [2015 – 2016]

Address: Rawalpindi (Pakistan)

Matriculation

F.G Sir Syed Girls Secondary School [2013 – 2014]

Address: Rawalpindi (Pakistan)

DIGITAL SKILLS

Testing

Postman(Basic API tests)

Frontend

HTML / CSS / Bootstrap and Tailwind CSS / Vue.js

Backend

Django and Flask / Django Rest Framework / Dbeaver (database editor) / Familiar with SQLite

Computer Vision

Python / Machine Learning/AI (CNN with Tensorflow) / YOLOV7 / TensorFlow+Keras / OpenCV / Basic Knowledge / PaddleOCR / Data tools: CVAT

Others

C, C++ / Git

PROJECTS

Intelligent Surveillance System

[Current]

1. **Pose Detection:** Leveraged YOLOv7 and computer vision techniques to develop an advanced system for accurate human pose detection and tracking.
2. **Backpack Detection:** Utilized YOLOv7 and machine learning models to create a real-time backpack detection module for enhanced security measures.
3. **Crowd Conversion and Diversion Detection:** Developed a sophisticated algorithm using YOLOv7 and advanced analytics to detect crowd conversions and diversions, enabling proactive response in public safety.

Safe City

1. Object Classification using CNN, TensorFlow, Keras and OpenCV.
2. License Plate Detection using PaddleOCR and OpenCV,
3. Object Detection using YOLOv7, TensorFlow, Keras and OpenCV

Safe City

1. Converted an HTML/CSS template to Vue.js. Completed the front-end theme and integrated it with pre-existing back-end system.
2. Designed and developed Flask APIs for user authentication and image retrieval from a local folder.
3. Implemented Web Sockets to enable real-time image updates for users.

Prozameen

1. Involved in software development lifecycle(SDLC) of tracking the requirements, gathering, analysis, detailed design, development, and testing.
2. Actively involved in developing the CRUD methods, READ, UPDATE and DELETE(CRUD) in Active Record.
3. Developed entire backend modules using Django and Django Rest Framework.

E-Commerce Website(MAGENTO)

1. Worked with the design team to create a responsive e-commerce website using Magento 2.2, including adding new products and categories