

Huzaiifa Irfan

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EXPERIENCE

Freelance / Consultant / Developer

Sept 2023 – Present

Multiple Companies

Remote

- LangGraph GPT RAG AgentBot Integration with Chatwoot
- Setting Up a Production Continuous Deployment Pipeline with Github Actions and AWS

CTO

Sept 2021 – Sept 2023

InLights Solutions (PVT) LTD

Islamabad, PK

- Leading Technical Team including Web, Electrical, Embedded, Transportation, and Machine Learning Engineers. Providing Automated applications to the industry using Computer Vision and Embedded Solutions
- Engineered, Developed, and Tested an Intelligent Traffic Signals System as a Proof of Concept in Islamabad, Pakistan
- Developed Traffic Signal Control Backend System with ROS2, YOLOv8, Modbus

Mechanical Maintenance Intern

Jul 2022– Aug 2022

Pak Arab Refinery LTD

Muzaffargarh, PK

- Familiarized with the operational methodologies of various departments and refinery units by API Standards, including SAP, material management, maintenance planning, and work order placement
- Learned about planning and execution of maintenance activities, encompassing administration, work permits, standard operating procedures (SOPs), inspection reports, and non-destructive testing (NDT) protocols

Web Developer Intern

June 2020 – Sept 2020

IdeaFist (Pvt.) Ltd.

Remote

- Developed a Video-Feed App for Egerin - Django and Selenium App that scrape video details from Social Websites and displays them in categories on the front end, with admin panel.

PROJECTS

Washing Machine with Mobile App | ESP8266, C++, Flutter

Nov 2023 – Nov 2023

- Replaced Faulty Electronic Circuit with newly developed Circuit
- Remote Control Using Android App

Dimensional Inspection Machine | RPI Camera. PyQT, OpenCV. CAD

May 2022 – June 2023

- Developed an automated dimensional inspection machine for manufactured parts. This machine acquires images and analyzes them in real-time using a computer vision algorithm, according to predetermined dimensional tolerances

Heat Exchanger Sensors Reader | Arduino, Python, pySerialTransfer

Apr 2023 – May 2023

- Live Shell and Tube Heat Exchanger Temperature, Pressure, and Flow Readings Monitoring
- Save Real Time Sensor Data in csv file for further analysis or graph plotting

Courier Tracking Scraper APIs | FastAPI, Selenium, Docker, WordPress Plugin

Aug 2021 – Jul 2022

- Selenium-Based Scraper API and WordPress Plugin for Couriers

ACHIEVEMENTS

Gold Medalist - High Achiever Awards |

May 2023

- Secured 2nd position in an international event FICS, among 300+ teams for a project of automating traffic lights in Islamabad

EDUCATION

National University of Sciences and Technology

Islamabad, PK

Bachelor of Engineering in Mechanical Engineering

2019 – 2023

TECHNICAL SKILLS

Languages: Python, JavaScript, C++

Frameworks: Django, Flask, FastAPI

Databases: PostgreSQL, MongoDB

Cloud and DevOps: AWS, GCP, Docker, GitHub Actions

Embedded: STM32, ESP32, Arduino, Raspberry PI

CAD: Proteus, Pro-E, EasyEDA

June 11, 2025