Owais Ahmed

Ph.D. Student | Software Engineer (AI/ML)

Marietta, GA, USA
+1 (470) 262 3856
✉ owaisahmed142002@gmail.com
🌐 owais142002.github.io
in owais-ahmed-749911192
 owais142002

Professional Summary

Ph.D. candidate in Intelligent Robotics Systems at Kennesaw State University with 4+ years of experience in software engineering, computer vision, AI, and machine learning. Currently conducting research on multi-robot collaboration, and LLM-driven automation. Seeking a Summer 2026 internship in Software Engineering, Computer vision, LLMs, robotics, or applied ML systems.

Education

Aug 2025 – Present
Ph.D. in Interdisciplinary Engineering (Intelligent Robotics Systems), *Kennesaw State University*, Marietta, GA
Current CGPA: 4.00/4.00. Graduate Research Assistant at AERO Lab. Research focus: Multi-robot communication, AI perception, and autonomous collaboration.

Oct 2019 – Oct 2023
B.E. in Computer & Information Systems Engineering, *NED University of Engineering & Technology*, Karachi, Pakistan
GPA: 3.63/4.00. Final Year Project: *Optimal Robotic Arm Gripper using Dual Monocular Vision for 6D Pose Estimation.*

Technical Skills

Languages	Python, JavaScript
Frameworks	Django, Flask, React, Node.js, Streamlit, FastAPI
AI/ML	PyTorch, TensorFlow, LangChain, LangGraph, Hugging Face
Robotics	ROS, Gazebo
Tools	Git, Docker, Jupyter, Postman, VS Code, Jira
Databases	MongoDB, PostgreSQL, MySQL, Vector Databases

Professional Experience

Aug 2025 – Present
Graduate Research Assistant, *AERO Lab, Kennesaw State University*, Marietta, GA
- Conducting research on multi-robot communication and coordination using vision and LLMs.
- Developing AI pipelines for autonomous perception and task assignment in UAS–UGV systems.

Dec 2024 – Jul 2025
Machine Learning Engineer (Remote), *Rehani Soko LLC*, Washington, DC
- Built real estate price prediction models and chatbot systems using LangChain and GPT APIs.
- Designed and maintained large-scale data pipelines from 15+ property portals globally.

Jan 2024 – Dec 2024
Software Engineer (AI/ML), *Sibisoft Pvt. Ltd*, Karachi, Pakistan
- Integrated LangChain-based multi-action agents into Django applications, improving LLM response times by 35%.
- Led and won company-wide AI hackathon (2024).

Jan 2025 – Jul 2025
Software Engineer (Part-Time, Remote), *Morfyus*, Singapore
- Collaborated across multiple teams to address software engineering challenges in distributed systems.
- Worked on backend API design and integrations for AI-assisted platforms.

Jan 2023 – Dec 2023
Machine Learning Engineer (Remote), *Rehani Soko LLC*, Washington, DC
- Developed real estate chatbots and data collection pipelines for global property datasets.
- Implemented time-series models for housing price predictions.

Feb 2023 – Nov 2023	**Python AI Developer (Remote)**, *My AskAI*, London, England ○ Developed Python-based backend using Quart and integrated LLM APIs for intelligent assistants. ○ Designed fine-tuning interface enabling clients to train custom LLMs on their datasets.
Jun 2022 – Jan 2023	**Machine Learning Engineer (Remote)**, *CrossWing Inc.*, Ontario, Canada ○ Worked on automation of the vehicle workshop and warehouse using Computer Vision. ○ Implemented a demand forecasting pipeline for warehouse management.
Apr 2021 – Jul 2022	**Software Engineer Grade A1 (Remote)**, *Profecia Links*, Dubai, UAE ○ Implemented JavaScript-based web scrapers for e-commerce data extraction. ○ Contributed to import.io's custom framework for large-scale data pipelines.

Featured Projects

Human Sense Ads — Real-time human detection and personalized advertisement generation using LLMs.

Repository: github.com/owais142002/Human-Sense-Ads

Facial Emotion Detection — Real-time facial emotion recognition system using Flask + YOLOv8.

Repository: github.com/owais142002/facial-emotion-detection

Road Object Tracking — YOLOv7 + DeepSORT-based vehicle and pedestrian tracking on BDD100K dataset.

Repository: github.com/owais142002/Road-Object-Tracking

SmartScan Billing Assistant — Computer vision billing system that detects and prices 1200+ products using YOLOv8.

Repository: github.com/owais142002/SmartScan-Billing-Assistant

Publications

Ahmed, O., et al. (2023). *An Integrated Approach to Robotic Object Grasping and Manipulation using 6D Pose Estimation.* arXiv:2411.13205.

Ahmed, O., et al. (2025). *Smart Shelf Advertising using Real-Time Product Segmentation.* DOI:10.13140/RG.2.2.34475.96800.

Hackathons & Awards

2025	**3rd Place – Solana Breakout Hackathon** ($15K Prize)	colosseum.com/breakout	Submission: Agent Arc
2025	**Strawberry Reasoning with o1 Hackathon**	lablab.ai	Repo: github.com/hasnain3142/Chat-with-Paul-Graham
2025	**Llama 3 Hackathon**	lablab.ai link	Repo: github.com/owais142002/DataWizard
2025	**Next2 Edge Runners Hackathon**	lablab.ai link	Repo: github.com/AdvancedHueristics/MedAI-Assistant
2024	Winner – Sibisoft AI Hackathon
2023	Top Rated Freelancer – Upwork (100% Job Success)
2020	Recipient – NED Alumni Association of Houston Scholarship

Additional Information

Languages	English (Fluent), Urdu (Native)
Test Scores	Duolingo English Test – 135/160
Availability	Summer 2025 Internship (May–Aug 2025)
Work Authorization	F-1 Visa (CPT Eligible)