TUSHAR MD AHASAN HABIB

Shanghai | *Song jiang* | (+86)13198558532 | *tushar*1911@*outlook.com* | *WeChat* : *im_tsr*

CAREER OBJECTIVE

Motivated and adaptable engineering graduate with hands-on experience in software development, technical support, and research. Seeking to apply my analytical thinking, problem-solving skills, and cross-functional collaboration abilities in a dynamic organization that values innovation, learning, and continuous improvement.

EDUCATION

University of Electronic Science & Technology of China,
B.S in Software Engineering. *Sept 2018-June 2022*

Donghua University,
M.S in Information engineering. *Sept 2022-Present. Expected Graaduation, 2025*

WORK EXPERIENCE

- **Millennium Computers & Networking**, `https://www.mcnbd.com/` *2015–2017*
  - Provided technical support for desktop systems, networking, and peripherals.
  - Assisted with system installation, hardware configuration, and routine maintenance.
  - Diagnosed and resolved LAN/WAN connectivity issues to ensure uninterrupted operations.
  - Helped conduct training sessions for clients on IT systems and services.
- **Shanghai Wicresoft Co., Ltd**, (Technical Support Engineer Intern) *2022*
  - Delivered Tier-1 technical support for software/hardware incidents within SLA targets.
  - Diagnosed system issues and provided first-line resolutions or escalations.
  - Maintained customer service logs and daily operational documentation.
  - Collaborated with cross-functional technical teams to troubleshoot escalated issues.
- **Wanhai Medical** (Marketing Intern), `https://www.pen-injectors.com/` *2025*
  - Conducted market research and competitor analysis for injector-based medical devices.
  - Contributed to content creation for website and digital marketing materials.
  - Assisted with execution and monitoring of email campaigns and engagement metrics.
  - Coordinated with cross-department teams to support marketing project workflows.

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- **Department Leader**, International Student Association (ISA), Donghua University *2022–Present*
  - Organized cultural exchange events and coordinated international student activities.
  - Acted as liaison between administration and the international student body.
- **Country Representative**, Bangladesh Section, UESTC *June 2021–June 2022*
  - Represented the Bangladeshi student community in university forums and events.
  - Supported new students with orientation, housing, and academic guidance.
- **Performer**, Chengdu Sichuan Opera Foreign Tune Opening Event *2018*
  - Participated in a traditional Chinese opera performance to promote cultural exchange.
  - Represented international students in a widely attended public cultural showcase.

THESIS & PUBLICATION*

B.S Thesis:"Design and implementation of the enterprise Intern weekly report management system (Prof. Chen Jia)"
M.S Thesis:"YOLO-SKYNet: Lightweight Deep Learning for Small-Object Detection in UAV Imagery for complex environments (Prof. Zhang Yihong)"

*YOLO-SKYNet: A Lightweight Deep Learning Framework with Novel Approaches for Small-Object Detection in UAV Imagery Under Complex Environments (Accepted for publication).
*YOLO-UAVNet: A Novel Deep Learning Network for small Object Detection in Complex Environments Using UAV-Assisted Images (Accepted for publication).
*YOLO-AeroShift: A Lightweight Framework for Small-Object Detection in UAV Imagery Under Complex Environments (submitted 2025).

PROJECT EXPERIENCE

- "Rainfall-Prediction using python" Design a predictive model using machine learning algorithms to forecast whether or not it will rain tomorrow in China.
- "Network Packet Sniffer & Analyzer (Scapy, Wireshark, Python sockets)" Developed a real-time network traffic analyzer to detect suspicious activity. Integrated anomaly detection using Isolation Forest, achieving 92% accuracy.
- "Async Web Scraper with Rate Limiting (asyncio, aiohttp, BeautifulSoup)" Built a scalable web scraper to collect 10k+ product reviews daily from e-commerce sites. Implemented rate limiting, proxy rotation, and CAPTCHA bypass using OCR (Tesseract). Automated data cleaning and storage in PostgreSQL.
- "Real-Time AI Chatbot with Memory (GPT-3.5, Redis, Flask)" Developed a conversational AI chatbot with session memory using Redis. Reduced API costs by 25% via response caching and achieved.
- "AI-Powered Code Review Assistant (Python, GPT-4 Vision, PyTorch)" Built a CLI tool to analyze GitHub pull requests using GPT-4, detecting security flaws (SQLi/XSS) with 85% accuracy. Reduced code review time by 50% for a 10-developer team via automated suggestions.
- "Multimodal Image-to-Recipe Generator (CLIP, GPT-4 Vision, PyTorch)" Created a model that generates recipes from food images. Trained on a custom dataset of 50k images.
- "Hybrid Recommendation System (Surprise (collaborative filtering), TensorFlow (neural networks))" Combined collaborative filtering with neural embeddings for a streaming service. Improved click-through rate by 18% compared to legacy systems.
- "Object Detection Using Pi5 (YOLOv8, PyTorch, TensorRT)" Deployed YOLOv8 on Raspberry Pi 5 for real-time aerial object detection, optimizing inference speed by 30% via model quantization.
- "Image Communication and Information Processing (ICIP)" Developed MATLAB-based algorithms for UAV image segmentation and feature extraction, achieving 92% accuracy in complex environments.

Visit my GitHub for additional personal tools, Python mini-games, and automation scripts: https://github.com/tushar730/007.git.

SKILL

- **Programming:** PYTHON, C, MATLAB, HTML, CSS, PHP
- **Software:** AutoCAD, Blender, Cisco Packet Tracer, SQLMap, Android Studio, Premiere Pro
- **Communications:** Technical reports, leadership, presentation, teamwork

TRAINING

- Python Programming Essentials, Coursera.
- Machine Learning by Stanford University, Coursera.
- Successfully completed courses related to major through Udemy, Stanford Online.

LANGUAGES

- **English:** Fluent (Academic and Professional proficiency)
- **Chinese (Mandarin):** Intermediate (Conversational and Academic reading)

REFERENCES

Prof. Dr. Zhang Yihong	Vice Dean, Donghua University, School of Information Science and Technology, Donghua University Email: zhangyh@dhu.edu.cn Tel.: +86-138-1782-6259
Prof. Dr. Fan Hong	Associate Professor Donghua University, School of Information Science and Technology, Donghua University Email: dhfanhong@dhu.edu.cn Tel.: 67790000