

# ZUHAIB MANSOOR

## Software Engineer

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### PROFESSIONAL SUMMARY

Master of Engineering (ECE) specializing in **Full-Stack AI Development** and **Distributed Systems**. Proven track record in bridging the gap between physical network reliability and cloud-native software delivery. Expert in architecting scalable automation tools, deploying containerized applications, and leveraging Large Language Models (LLMs) to solve complex operational bottlenecks.

### TECHNICAL SKILLS

- **Languages & Frameworks:** Python (Pandas, Scikit-learn, XGBoost), Go, SQL, Reflex, Streamlit, HTML/CSS
- **AI & Cloud-Native:** LLM Integration (Gemini, Llama 3), Docker, AWS, Google Cloud Platform (GCP), GitLab CI
- **Architecture & Methodology:** SDLC, Agile/Scrum, Distributed Systems, Microservices, Event-Driven Architecture
- **Interpersonal:** Technical Consultation, Problem Solving, Analytical Thinking, Cross-Functional Collaboration

### WORK EXPERIENCE

**Associate Network Technician | Net-Neutral Inc. | Leamington, ON** Jun 2024 - Present

- Designed and optimized distributed network architectures for 28+ nodes, focusing on high-availability and system latency reduction.
- Deployed and validated fiber-optic infrastructure for residential and commercial networks, reducing downtime incidents by 25%.
- Collaborated with engineering teams for uplink integration and remote testing, improving service restoration time by 30%.

**AI Software Developer (Independent / Freelance) | Remote** Feb 2025 – Present

- **AI Workforce Optimization:** Engineered a predictive scheduling engine using XGBoost to identify labor inefficiencies, projecting a 25% reduction in operational costs.
- **System Integration:** Architected a full-stack recruitment suite integrating **Llama 3 (via Ollama)** and **Docker** for containerized, private data processing.
- **Data Pipeline Development:** Developed custom ETL scripts to transform complex CSV exports into proprietary structured formats with 100% data integrity.

### PROJECTS

#### Full-Stack AI Recruitment & ATS Suite

Tech: **Python, Reflex, Docker, Llama 3, Sentence-Transformers, Semantic Search**

- Developed a containerized application that performs semantic resume analysis using local LLMs to ensure data privacy and high-speed processing.

#### AI Workforce Optimization & Predictive Analytics

Tech: **Python, Pandas, XGBoost, Streamlit, Scikit-learn**

- Developed a predictive modelling tool to analyze historical labor data and forecast demand, enabling data-driven scheduling that reduces overhead expenses by 25%.

#### Airbus Stock Analysis and Prediction

Tech: **Python, Pandas, NumPy, Keras, Scikit-learn, LSTM, Tableau, Jupyter Notebook**

- Successfully predicted short-term stock trends for Airbus with high model accuracy and presented findings through a dynamic for enhanced data insights.

#### Complete and Incomplete Case k-NN Data Imputation Model

Tech: **Python, Pandas , NumPy, k-NN, PyCharm, Tableau, Microsoft Office**

- Successfully demonstrated that ICkNNI outperforms CCkNNI in higher-missing-data scenarios, providing deeper insights into imputation strategies for real-world datasets.

### EDUCATION

Master of Engineering in Electrical & Computer Engineering | University of Windsor, Ontario, CA  
Bachelor of Engineering in Electronic Engineering (Hons.) | University of Central Lancashire, UK

Sep '21 - Jun '23  
Sep '18 - Jun '21

### Certification

CompTIA A+ Core 1 (220-1201)

Aug 2025