

Muhammad Usman Mateen

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As a final-year BSc Computer Science with AI student on track for a first-class degree, I am determined to join JLR's Industrial Operations: Digital and Innovation Graduate Programme to contribute from day one. My skills in C++, Python, and JavaScript and my hands-on experience in developing digital tools and virtual environments prepare me to solve complex problems effectively. I am passionate about using cloud computing, AI, and machine learning to drive innovation and optimize operations. I take initiative in learning new technologies, thrive in collaborative environments, and aim to leverage tools like NVIDIA Omniverse to create impactful digital twins and enhance AI-driven inspection systems.

Core Competencies

- **Soft Skills:** Communication, Problem-solving, Teamwork, Adaptability, Leadership
- **Programming Languages:** Python, C++, Java, R, SQL, HTML, CSS
- **Cloud Technologies:** AWS (EC2), Docker
- **Databases:** MySQL, PostgreSQL
- **Development Tools:** Git, Flask, Agile Development, Jenkins, JIRA, CI/CD
- **Operating Systems:** Windows, Linux (Ubuntu, Kali), MacOS
- **Languages:** Fluent in English and Urdu, Intermediate in Portuguese

Education

Coventry University, United Kingdom

BSc (Hons) Computer Science with Artificial Intelligence

September 2022 – Present

Key Modules:

- **Software Engineering:** Developed a strong understanding of software development processes, agile methodologies, and the software development lifecycle (SDLC). Worked on real-world applications and collaborative team projects.
- **Artificial Intelligence and Machine Learning:** Gained hands-on experience in building machine learning models using TensorFlow and Scikit-learn and applied these models in industry-relevant problems like energy price prediction.

Projects:

- **Final Year Project (Ongoing):**
 - **AI for Predictive Analytics in Energy Trading:** Designing machine learning models to forecast energy prices using time series analysis and real-world energy data.
 - **Skills Developed:** Time series analysis, predictive modelling, Python programming, and real-world application of AI in energy trading.

CU Coventry, United Kingdom

Foundation in Engineering

September 2021 – August 2022

- **Key Modules:** Academic and Professional Practice (84%), Fundamental Engineering Mathematics (72%), Electrical and Electronic Engineering Fundamentals (81%).
- **Key Skills:** Academic writing, research, time management, critical thinking, engineering problem-solving, circuit design, and analysis.
- **Achievements:** Consistently scored above 80% in key modules, building a strong foundation for advanced studies in computer science and AI.

Work Experience

Software Engineer Intern

Energy One, Solihull, United Kingdom | September 2024 – Present

- Assisted in troubleshooting and resolving technical issues in energy trading software applications, enhancing system stability and performance.
- Participated in **QA testing** and load testing to ensure code quality and system functionality across multiple platforms.
- Supported the development team by collaborating on tasks and learning **C#**, with plans to participate in development soon.
- Worked on data processing and analysis tasks, deepening knowledge of energy markets and **AI-based prediction models**.
- Gained exposure to the full **software development lifecycle (SDLC)** through support and testing roles.
- Actively participated in agile methodologies to improve project delivery efficiency.

Senior IT Support Engineer

Smarttel, Cascais, Portugal | April 2023 – October 2024

- Led IT support and system troubleshooting efforts, maintaining **95% issue resolution rate** for critical infrastructure.
- Proactively managed and maintained systems for **high availability** and uptime, contributing to operational success.

Freelance Web Designer

Atafire, USA | December 2020 – January 2021

- Delivered an improved website for a US-based client, increasing site traffic by **15%** through better design and SEO optimisation.

Key Projects

Full Stack MRP System for FloatFry (82% Project Score)

Coventry University, UK | March 2023 – May 2023

- Developed a **Manufacturing Resource Planning (MRP)** system using a full-stack approach with **HTML, CSS, Python, SQL, and AWS**, enabling efficient resource management and planning for manufacturing operations.
- Implemented **role-based access control (RBAC)** and advanced security protocols to safeguard data integrity and ensure compliance with industry standards.
- Applied **agile methodologies** to meet project deadlines, ensure team collaboration, and deliver a robust, user-friendly system.

Certifications & Achievements

- **Google Cybersecurity Certificate** – Demonstrated expertise in cybersecurity fundamentals, risk assessment, and protection strategies.
- **LinkedIn Learning Python Certificate** – Gained proficiency in Python programming, including data structures, algorithms, and web development.
- **Apps for Good: Top 10 Finalist** – Recognised as one of the top 10 finalists in a prestigious app competition in Portugal for creating an innovative, problem-solving mobile application.

References available upon request