

Muhammad Shayan
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PERSONAL PROFILE

Highly motivated and adaptable BSc Computer Science student at Coventry University, eager to contribute to impactful software engineering projects that enhance safety, efficiency, and sustainability. With a strong foundation in programming, cloud computing, data analysis, and systems thinking, I aspire to work in environments that embrace IoT, AI, and large-scale infrastructure. Passionate about leveraging connected systems to drive meaningful, real-world outcomes across diverse industries.

Certifications:

• IBM Data science (53SZSFZCUH5M)	August 8, 2024
• Generative AI: Elevate Your Data Science Career (H8BL8BPFZZM9)	January 19, 2025
• Data Analysis with Python (ECO9O0T7ABUY)	September 7, 2024
• Applied Data Science Capstone (OL97VJ60VC42)	January 9, 2025
• Data Visualization with Python (1ICQTG6MXK1O)	January 5, 2025
• Data Scientist Career Guide and Interview Preparation (W0D83COATLYI)	January 14, 2025
• Databases and SQL for Data Science with Python (TC5QYMCVUXKC)	August 31, 2024
• Personal Productivity, Time Management and Prioritization (35H0IEEXNKGJ)	March 2, 2025
• Machine Learning with Python (PMP3MMULV3NW)	January 15, 2025
• Managing Emotions in Times of Uncertainty & Stress (XKFFQZLILV5A)	March 7, 2025
• User Experience & Interaction Design for AR/VR/MR/XR (4ULDYAWTSPZ0)	March 21, 2025
• Python Project for Data Science (WFGRBFY4RFNL)	August 28, 2024
• What is Data Science? (HVZG6H7LI1TS)	August 10, 2024
• Data Science Methodology (3ADIG6H1MCLE)	August 14, 2024
• Python for Data Science, AI & Development (P2O8459QZ0ET)	August 21, 2024
• Tools for Data Science (5JEH08YHE1IE)	August 13, 2024

KEY SKILLS

Technical Proficiency:

- Frameworks & Tools: React, Flask, Node.js, Docker (familiarity), Git, Bash scripting
- Proficient in Python, C++, and assembly languages (MIPS, x86); familiar with HTML, CSS, JavaScript
- Backend Systems: REST APIs, NoSQL (MongoDB), SQL databases, data ingestion workflows
- UI/UX: Building responsive interfaces with clear data presentation

Software Development Practices

- Knowledge of full-stack development principles and Agile methodologies
- Clean code practices, continuous integration/deployment (CI/CD), and software debugging
- Interest in building scalable systems for data collection and visualization

IoT and Cloud Awareness

- Keen interest in the Internet of Things (IoT) and connected operations
- Conceptual understanding of telemetry, device-to-cloud communication, and edge computing
- Data science project experience involving analytics and actionable insights

Problem Solving & Reasoning

- Logical thinker who applies first-principles reasoning and algorithmic design
- Able to model large-scale systems and abstract problems into modular components

Collaboration & Communication

- Worked on team-based software projects using GitHub and shared repositories
- Excellent interpersonal and written communication skills; can translate technical content to non-specialists
- Engaged in customer-facing environments, appreciating feedback-driven development

PROJECT & COURSEWORK HIGHLIGHTS

- University Project (Team of 5):** Built and delivered a software application by implementing a modular architecture; practiced Agile methods and held biweekly sprints and code reviews.
- Data Science Coursework:** Applied data wrangling and visualization techniques using Python and Pandas. Proposed recommendations from dataset insights.
- Backend System Simulation:** Designed a lightweight database system and API interface using Flask to simulate CRUD operations and client-server architecture.

EDUCATION

Coventry University, BSc Computer Science (Hons)

2023-Present

Modules: Computer Systems Working with Databases, Programming Concepts and Algorithms, Programming Professional Practices, Integrative Project, Mathematical Skills for Computing Professionals, Artificial Intelligence, Advanced algorithms, Theory of Computation, Data science, Operating systems, Software engineering.

Asia Pacific University, Foundation for Computer Science

2022-2023

Modules: Communication skill, Essential web applications, Introduction to business, Introduction to visual interactive projects, Personal development and study methods, Academic research skills, Introduction to multimedia applications, Perspectives in technology.

British Council, GCSE

2021-2022

Subjects: Biology, Maths, Chemistry, Physics

INTERESTS & PROFESSIONAL DEVELOPMENT

- **Tech Exploration:** Studying distributed systems, backend scalability, and data-driven software engineering; interested in edge computing and real-time telemetry.
 - **Self-Directed Learning:** Currently experimenting with TypeScript, GraphQL, and Docker for scalable development.
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