MASHHOOR MAEN AL-AWAISHAH

M.Sc. Data Science & Artificial Intelligence | B.Sc. Software Engineering

Academic CV - Faculty Member / Lecturer

Amman, Jordan
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MASTER'S DISTINCTION: EXCELLENT STANDING | RANKED 1ST IN THE DEPARTMENT

ACADEMIC PROFILE

Academic and applied technology professional with a Master's degree in Data Science and Artificial Intelligence, graduated with Excellent standing and ranked 1st in the department, and a Bachelor's degree in Software Engineering. Combines university teaching with hands-on professional practice in software development, networks, cybersecurity, data protection, and artificial intelligence. Experienced in supporting students in programming and computer laboratories, building operational university systems, and applying machine learning in a nuclear-research environment. Brings a practice-oriented teaching approach that connects theory with real system requirements, implementation, security, deployment, troubleshooting, and problem solving.

EDUCATION

Master's Degree in Data Science and Artificial Intelligence — 2026

Jadara University, Jordan
Excellent Standing | Ranked 1st in the Department
Thesis: Robust Sky Sentinel - A Deep Learning Framework for Drone-Bird Discrimination in Adverse Visual Conditions

Bachelor's Degree in Software Engineering — 2023

Jadara University, Jordan

ACADEMIC & TEACHING EXPERIENCE

Jadara University — 20 Oct 2026 - Present

Faculty Member | Faculty of Information Technology

- Serve as a faculty member in the Faculty of Information Technology, delivering theoretical and practical undergraduate instruction.
- Prepare lecture slides, practical/laboratory materials, and course content in line with departmental and course-coordination requirements.

Jadara University — Feb 2024 - Mar 2025

Programmer | Teaching Assistant | Computer Laboratory Supervisor

- Supported students in computer laboratories and assisted with practical programming, technical exercises, troubleshooting, and hands-on learning activities.
- Supervised laboratory operations, schedules, academic computing resources, and day-to-day student support in a university environment.
- Contributed to the design and development of university software systems and helped convert paper-based administrative processes into electronic workflows.
- Connected practical software-development experience with academic support, including requirements analysis, databases, system design, testing, and problem solving.

PROFESSIONAL & APPLIED TECHNICAL EXPERIENCE

Jordanian Nuclear Research and Training Reactor — Mar 2025 - Mar 2026

Programmer | Networks & Data Communication | Cybersecurity & Data Protection | AI Applications

- Worked across programming, networks, data communication, cybersecurity, and data-protection tasks in a technically sensitive operational environment.
- Applied artificial intelligence and machine-learning concepts to technical problems related to nuclear-research workflows.

- Developed the Neutron Transmutation Doping (NTD) Dose Prediction System to estimate neutron dose/fluence and irradiation time using machine learning, with an interactive dashboard and REST API.
- Built practical exposure to real operational constraints, security considerations, data handling, system integration, and technical troubleshooting - experience directly applicable to practice-oriented IT teaching.

COURSES PREPARED TO TEACH

Prepared teaching portfolio across Information Technology, Software Engineering, Computer Science, Data Science, and Artificial Intelligence:

Foundations & Programming: Introduction to Information Technology; Introduction to Information Systems; Introduction to Programming; Programming Language I; Digital Logic Design; Data Structures; Operating Systems.

Software Engineering & Systems: Software Engineering Fundamentals; Systems Analysis and Design; Software Project Management; Analysis and Design of Algorithms; Software Testing and Quality Assurance; Software Engineering Tools; Component-Based Design; Distributed Systems.

Databases, Networks & Security: Database Fundamentals; Networks and Data Communications; Information and Software Security; Data Security.

Web, Mobile & Human-Centered Computing: Web Application Development; Mobile Application Programming; Human-Computer Interaction; Multimedia.

Artificial Intelligence & Data: Artificial Intelligence; Advanced Artificial Intelligence; Data Analysis and Visualization; Advanced Data Mining.

Additional teaching flexibility: Able to prepare and teach additional IT-related courses after reviewing the course syllabus, learning outcomes, and departmental requirements.

PUBLICATIONS & RESEARCH

Journal Article

Al-Batah, M. S., & Al-Awaishah, M. (2026). "A Novel Ensemble Approach for Facial Emotion Recognition and Sentiment Analysis Using Deep Learning and Attention Mechanisms." International Journal of Artificial Intelligence and Machine Learning, 6(3), 645-652. DOI: 10.51483/IJAIML.6.3.2026.645-652.

Conference Paper

Al-Awaishah, M., Alzboon, M. S., Abdel Wahed, M., & Al-Batah, M. S. (2026). "Machine Learning for Attendance Fraud Detection in Biometric Logs." 2026 International Conference on Smart Multidomain Integrated Learning Environments (ICSMILE 2026). DOI: 10.1109/ICSMILE69273.2026.11519283.

Master's Thesis

Robust Sky Sentinel: A Deep Learning Framework for Drone-Bird Discrimination in Adverse Visual Conditions.

Research Interests

Artificial Intelligence, Machine Learning, Data Science, Computer Vision, Intelligent Systems, Software Engineering, Cybersecurity Applications

Teaching Strengths

Programming, Web Development, Databases, Software Engineering, Networks, Information Security, Artificial Intelligence, Data Science

SELECTED RESEARCH, AI & APPLIED SOFTWARE PROJECTS

Robust Sky Sentinel - Drone-Bird Discrimination Using Deep Learning (2026)

Deep learning and computer vision framework for drone-bird discrimination under challenging visual conditions, using YOLO-based detection, trajectory-assisted analysis, engineered features, and end-to-end evaluation.

NTD Dose Prediction System (2026)

Machine learning system for estimating neutron dose/fluence and irradiation time for silicon NTD, supported by an interactive dashboard and REST API.

Automatic Programming Exam Generator Using LLM (2026)

Academic web system for manual or AI-generated programming questions, reusable question-bank management, exam construction, preview/printing, and data export.

Smart Shopping Assistant for Food Recipes (2026)

Web-based intelligent system for recipe management, ingredient tracking, home inventory, recipe recommendations, and automated shopping-list generation.

APPLIED TEACHING VALUE

A practice-oriented academic profile that can bring real examples into the classroom from:

- Full software-development workflows: requirements, database design, implementation, testing, deployment, and troubleshooting.
- University systems and process digitization: translating real administrative needs into working software solutions.
- Networks, data communication, cybersecurity, and data protection in a sensitive technical environment.
- Applied AI and machine learning: model development, evaluation, dashboard integration, and REST API deployment.

SELECTED PRACTICAL SOFTWARE & UNIVERSITY SYSTEMS

- Human Resources System (2025): employee data, experience, employment status, and role-based permissions for directorates and departments.
- Employee Fingerprint Monitoring System (2025): instant collection from fingerprint devices to the server, storage, analysis, and authorized display of employee records.
- University Task Distribution System (2025): workflow for assigning tasks from the university president's office to deanships, faculty members, and employees.
- Computer Lab System (2024): laboratory schedules, supervisor assignments, device counts, and printable lab schedules.
- University Lecture Hall Reservation System (2024): event-based hall booking with time and logistical-equipment requirements.
- Additional development projects (2023-2025): player-performance evaluation, chalet rental, movie subscriptions, vehicle rental, airline reservations, and craftsman/service requests.

TECHNICAL SKILLS

Programming	Python, PHP
Web Technologies	HTML, CSS
Databases	MySQL
AI & Data Science	Machine Learning, Deep Learning, Computer Vision, LLM-based applications
Software Engineering	Web application development, REST API integration, system analysis, problem solving
Infrastructure & Security	Networks, data communication, cybersecurity, data protection
Additional	Mobile application programming

LANGUAGES & ADDITIONAL INFORMATION

Languages: Arabic - Native | English - Good command of writing, reading, and speaking

Certifications: Microsoft Certified: Azure AI Fundamentals, Microsoft, Oct 2026 (Credential ID: sYGY-XMpE) | ICDL Course, 2022

Personal Information: Jordanian | Date of Birth: December 30, 1999

References: Available upon request.