

جامعة عجلون الوطنية
Ajloun National University

JOMANA ABD ALTAWAAB

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PROFILE

Software Engineering graduate with a Master's degree and academic teaching experience at Philadelphia University. Experienced in teaching programming courses and labs, including Java, C++, and software engineering concepts. Skilled in web development, database management, and research, with a strong interest in academic teaching and scientific research.

Personal Data

Date of birth:٠٣/09/19٩٨
Nationality: Egyptian

EDUCATION

- Master's Degree – Software Engineering, Philadelphia University, Amman, Jordan (2024).
- Bachelor's Degree – Software Engineering, Ajloun National Private University, Jordan (2020).

WORK EXPERIENCE

1. Lecturer – Philadelphia University, Amman, Jordan (2022–2026)
- Taught undergraduate courses in Software Engineering and Computer Science.
- Delivered programming lectures and practical lab sessions.
- Supported students in understanding programming concepts, software development, and practical applications.

2. Remote Programming Experience – Saudi E-Commerce Company (2020)
- Worked on website development and maintenance using PHP and related web technologies.
- Used MySQL and phpMyAdmin to manage databases and update customer records.
- Gained practical experience in e-commerce systems and web application development.

3. Academic and Practical Training Experience
- Assisted students in developing programming and problem-solving skills through practical exercises.
- Applied theoretical concepts to programming tasks and software development projects.
- Supported database-related tasks and website functionality using relevant development tools.



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Master's Research

Title: Effective Intrusion Detection Approach of IoT Attacks Based on Multigrain Feature Extractor and Cascaded Deep Forest Trees.

This research focuses on developing an effective intrusion detection approach for Internet of Things (IoT) networks using a Multi-Grained Feature Extractor and Cascaded Deep Forest (GCForest) model. The proposed approach aims to improve the detection and classification of network attacks, including DoS, DDoS, and reconnaissance attacks, while distinguishing malicious traffic from normal network activity.

The experimental results achieved an overall classification accuracy of 99.9%, demonstrating the effectiveness of the proposed approach in detecting IoT-related network attacks. The study also evaluates model performance using precision, recall, and F1-score to provide a comprehensive assessment of intrusion detection capabilities.

Publication Status: The research paper is currently in preparation for publication.

SKILLS

- Subject Matter Expertise in Software Engineering and Computer Science
- Teaching and Instructional Skills
- Research and Academic Writing
- Effective Communication Skills
- Student Mentoring and Academic Support
- Technological Adaptability and Continuous Learning

Languages

Arabic , English.

TEACHING EXPERIENCE

- Programming Languages: PHP, Java, C++
- Web Development: HTML, CSS, Bootstrap
- Database Management: MySQL, phpMyAdmin, Oracle
- Software Engineering and Application Development
- Object-Oriented Programming (OOP)
- Software Testing and Quality Assurance
- E-Commerce Website Development
- ERP Systems – Basic Knowledge
- Intrusion Detection Systems and Cybersecurity Research