

Anas AlSobeh

Assistant Professor & Program Coordinator | IEEE Senior Member | SigHPC | WiCys
Information Technology (ITEC) and Cybersecurity (CTEC) Program, School of Computing
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Professional Summary

Dedicated Information Systems educator and researcher with 10+ years of experience in teaching, applied research, and industry practice. Proven expertise in developing and delivering hands-on curriculum for programming, databases, web development, and cybersecurity. Strong background in applied AI, machine learning, and data analytics with focus on real-world problem solving. Committed to student success, inclusive pedagogy, and ABET-aligned curriculum development. Published 50+ peer-reviewed articles with recent USDA funding (\$150,000) for AI-powered pathogen detection research. Active IEEE Senior Member, and MIT-trained in Data Science & ML.

Education

Ph.D. in Computer Science | Utah State University, Logan, UT (2011-2015)

Dissertation: Improving Reuse of Distributed Transaction Software with Transaction-Aware Aspects, GPA: 3.94/4.0

M.Sc. in Computer Information Systems | Yarmouk University, Jordan (2007-2010)

GPA: 88.2/100 (Excellent)

B.Sc. in Computer Information Systems | Yarmouk University, Jordan (2003-2007)

GPA: 86.2/100 (Excellent)

Core Competencies

- Artificial Intelligence (AI), Machine Learning, LLMs
- Cybersecurity, Adversarial Attacks, Deepfake Detection
- Cloud Computing, IoT, Web Technologies
- Software Architecture, AOP, Blockchain
- Curriculum Development & Teaching (UG/Grad)
- Academic Research & Grants Management
- Data Science, Statistical Modeling
- Project Management, Proposal Writing
- Higher Education Leadership & Accreditation

Professional Experience

Assistant Professor & Program Coordinator, Southern Illinois University, USA | Jan 2023 – Present

- Leading research in AI-powered cybersecurity, IoT, and cloud computing.
- PI on USDA-funded AI project for food safety (\$150,000).
- Designed undergraduate and graduate IT curricula.
- Program Coordinator for ITEC & CTEC programs.
- Advisor to research projects, WiCyS student chapter, and senior design.
- Chaired committees for assessment, outreach, and hiring.
- Teaching Information Technology and Cybersecurity courses

Expert Consultant (Course Developer) — ICMPD / MCP Med TI (Home-based) — 2025

- **Migration and Artificial Intelligence** (25 hours, EQF/MQF Level 4): Authored syllabus and agenda; built multi-module lesson plans with case studies, group work, and hands-on labs; prepared handouts and trainer guidance for face-to-face/online/blended delivery; designed a self-study methodology with APA-referenced core and supplementary reading lists; created the assessment mechanism including rubrics and a proctored final examination; aligned all outputs to MCP Med TI templates and QA practices.
- **Statistical Analysis in a Migration Context** (25 hours, EQF/MQF Level 4): Developed end-to-end course package (syllabus/agenda, lesson plans, handouts, self-study, and final exam), mapping ILOs → assessment; provided options for Excel/Python/SPSS; curated practice datasets and in-class problem sets; embedded ethics and data-quality checkpoints; ensured consistency with European best practices and MCP Med TI standardization.

Associate Professor, Kingdom University, Bahrain | Sept 2022 – Dec 2022

- Teaching undergraduate courses
- Conduct research in ML and Software engineering
- Developed IS Master's program tracks (Cybersecurity, Data Analytics).
- Organized national cybersecurity workshops.
- Curriculum designer and formal university representative.

Associate Professor / Assistant Professor, Yarmouk University, Jordan | Jan 2016 – Sept 2022

- Led research projects under H2020, GIZ, Erasmus+, and DAAD.
- Directed Refugee & Forced Migration Center (2019–2021).

- Supervised 15+ MS theses and PhD dissertations.
- Taught over 20 courses across undergraduate and graduate levels.
- Teaching undergraduate and graduate course (Software Analysis and design, Web Technology, Web Design, Client/Server programming with PHP, Visual Programming with C#, HCI, Cloud computing)

Data Science Consultant (ICMPD Jordan), 2021 - 2023

- 2021, Led data analytics and training for migration policy projects (EU-funded MIDAM).
- 2022, Designed training for government staff on ML and data systems.
- 2023, Designed training courses to Intelligence Migration

Software Developer & Early Academic Roles

- Software Developer, Aman Information Systems (Jan 2007– Sept 2007)
- TA/RA, Utah State University (2011–2015)
- Lecturer, Yarmouk University (2010–2011)

Research Interests

- AI-driven Cybersecurity, Software Engineering, Machine Learning, Deep Learning
- Cloud Computing, Data Science, Health Information Systems
- Explainable AI, Digital Media Forensics, High-Performance Computing

Funded Research Projects

Principal Investigator

- USDA Capacity Building Grant (2024-2026): "Enhancing Food Safety: Rapid Detection of Salmonella in Onions Using AI" - \$150,000
- EU Horizon 2020 RAISD (2019-2023): Reshaping Attention for Vulnerable Displaced Populations - €2,662,128

Co-Principal Investigator

- DAAD PIANO Project (2021-2022): Pharmaceutical Initiative for Middle East Medicinal Plants - €198,780
- EU Erasmus+ NeuCARE (2019-2022): Neurodevelopmental Care for Refugees - €668,750

Teaching Experience

Courses Taught:

- Web Security, Database Management Systems, Python/Java Programming, Machine Learning, Data Science, Software Engineering, Cloud Computing, Cybersecurity, Discrete Mathematics

Student Supervision:

- Currently supervising 1 PhD student (Computer Science)
- Supervised 5+ MS students to completion
- Mentored 8+ undergraduate research projects

Professional Service

Editorial & Review Activities

- Editorial Board Member: Journal of Computer Information Systems (JCIS) - Scopus Q1
- Guest Editor: MDPI Systems Special Issue on Cybersecurity
- Active Reviewer: IEEE Access, Applied Sciences, Computers (40+ reviews annually)

Conference Leadership

- Session Chair: SIGITE 2023, AINA 2024, ACR 2023
- Workshop Chair: DIAC 2024, ACAIoT 2024
- Technical Committee: 15+ international conferences
- Reviewer: IEEE Access, Applied Sciences, Electronics, Sustainability, JCIS, etc.
- External Examiner: SIU & EMU PhD Programs
- Chair: IEEE SaTC 2025 Special Session on AI-Driven IoT Security

Professional Memberships & Certifications

- IEEE Senior Member (2023-present)
- ACM SIGHPC Member (2025-present)
- WiCyS Co-Faculty Advisor (2024-present)
- AWS Cloud Practitioner | NVIDIA Transformer-Based NLP Applications
- MIT Data Science & Machine Learning Certificate

Honors & Awards

- 2024 IACIS Best Paper Award - Deepfake Detection Research
- 2025 NSF CCMNet Travel Award - PEARC25 Conference
- 2024 STEM Research Mentor Award - SIU STEM Education Centre
- Full PhD Scholarship - Yarmouk University (2011-2015)

Selected Media Coverage

- KFVS12 TV Interview (2024): "SIU researchers studying how AI can prevent food poisoning"
- Daily Egyptian Feature (2024): Survey on student AI usage in academia

Key Skills

- Technical: Python, Java, C#, Machine Learning, Deep Learning, Cloud Computing, Blockchain, IoT
- Research: Grant Writing, Project Management, Statistical Analysis, Scientific Writing
- Leadership: Program Coordination, Team Management, International Collaboration

Languages

- Arabic (Native)
- English (Fluent)