

Moatasem Draz

Kafrelsheikh, Egypt

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Education

2021 - 2024

Helwan University, Faculty of Computers and Artificial Intelligence,
Helwan, Egypt.
PhD in Information Systems.
Thesis title: Software Cost Estimation using Mining Techniques.

2017 - 2021

Helwan University, Faculty of Computers and Artificial Intelligence,
Helwan, Egypt.
Masters in software engineering (SE).
Thesis title: Code Smell Detection using Mining Techniques.

2009 – 2013

Helwan University, Faculty of Computers and Artificial Intelligence,
Helwan, Egypt.
Bachelor of Software Engineering (SE).

Experience

2024 - Present

Lecturer, Information Systems Dept., Faculty of Computers and Information, Kafrelsheikh University, Kafrelsheikh, Egypt.

- Deliver lectures and tutorials across a range of undergraduate and postgraduate subjects.
- Design and evaluate quizzes, exams, and student projects.
- Supervise graduation projects and student research activities.
- Update course materials to reflect current academic and industry developments.
- Provide academic advising and student mentorship.
- Contribute to curriculum development and faculty committees.

2021 - 2024

Assistant Lecturer, Software Engineering Dept., Faculty of Computers and Information, Kafrelsheikh University, Kafrelsheikh, Egypt.

- Taught students' subjects related to information systems and software engineering.
- Participated in the quality unit as an implementer of the standard for faculty members.

2017-2022

Teaching Assistant, Software Engineering Dept., Arab Academy for Science and Technology (AAST), Sheraton, Cairo, Egypt (Part-time).

- Taught students subjects related to information systems and software engineering
- Conducted assessments and exams for students
- Supervised students in exams

2023-Present

Digital Transformation Trainer, Digital Transformation Center, Kafrelsheikh University, Kafrelsheikh, Egypt.

- Teach the skills of the seven models of digital transformation to students.
- Educate Students on new technologies, tools, and digital best practices.
- Adapt training approaches to meet course requirements.
- Conduct exams for students and review their results.

2022 - Present

Data and Information Specialist, University Center for Career Development (UCCD), Kafrelsheikh University, Kafrelsheikh, Egypt.

- Implement and enforce data protection policies and user access controls for internal information systems, ensuring confidentiality and compliance with university-wide IT governance.
- Deliver end-user training for UCCD staff on the secure and efficient use of educational and administrative platforms, minimizing operational risks and support incidents.
- Oversee routine updates, security patching, and content governance of the UCCD website to ensure system integrity and availability.
- Develop automated data tracking and reporting dashboards using Monitoring & Evaluation (MEL) systems, enhancing visibility into user engagement and service outcomes.

2021-2024

Information and Cyber Security Instructor, UVISION Academy, Saudi Arabia

- Developed security training curricula for employees and IT teams.
- Delivered workshops on cybersecurity awareness and best practices.
- Facilitated hands-on labs in ethical hacking and threat analysis.
- Educated staff on data protection laws and compliance protocols.
- Coached teams on secure coding and configuration.
- Coached development teams on secure coding practices and application security (OWASP Top 10, DevSecOps integration).
- Led simulation-based incident response exercises, preparing teams for real-world cyber-attack scenarios.
- Conducted red teaming/blue teaming exercises to enhance organizational cyber resilience.
- Designed and implemented cybersecurity awareness campaigns and phishing simulations across enterprise clients, significantly reducing social engineering attack success rates.
- Provided training on the use of SIEM tools (Splunk, ELK) for real-time monitoring and alert correlation.
- Supported the development of SOC analyst career tracks by integrating practical exercises in log analysis, malware investigation, and network forensics.

2016 - 2021

Teaching Assistant, Software Engineering Dept., Faculty of Computers and Information, Kafrelsheikh University, Kafrelsheikh, Egypt.

- Taught students subjects related to information systems and software engineering.
- Conducted assessments and quizzes for students.
- Supervised students in exams.

2014 - 2016

Web Developer, Business Applications and Software Solutions (BASS) Company, Maadi, Egypt.

- Developed and built websites from scratch using JAVA.
- repaired and supported website.
- Designed Database for used applications.
- Tested Code before delivery to customers.

Skills

Programming Skills: Java (J2SE), Java (J2EE): Servlet, JSP, EJB 3.0, JSF2.2, Primefaces 5.1, ADF, C#, Python.

Security Skills: Cyber Security, Vulnerability Management & Penetration Testing, Threat Intelligence & Threat Hunting, Security Policy Development, Security Auditing, Cloud Security (AWS, Azure, GCP), Firewall & IDS/IPS Management, Risk Management & Governance (GRC).

Language Skills: Fluent in spoken and written Arabic and English.

Tools

Programming Tools: NetBeans, Matlab, Google Colab, Microsoft SQL server, Oracle Database, Jdeveloper,

Security Tools: Kali Linux, Splunk, QRadar, ELK, Burp Suite, Nessus, Metasploit, Nmap, Wireshark, Snort, Suricata, Autopsy, FTK Imager, Volatility, AWS Security Hub, Azure Sentinel, Mastering Burp Suite, SIEM and Log Analysis with ELK Stack.

Courses

- Fundamentals of Digital Transformation Certificate from the supreme council of universities.
- Train of trainers (T.O.T) Training from the supreme council of universities.
- Facilitating Career Development (FCD) from the American University in Cairo (AUC).
- Fundamentals of labor market information (LMI) and quantitative data management from the American University in Cairo (AUC).
- Qualifying faculty members for leadership from the Leaders Development Institute (LDI).
- Crisis management and resolution from Nasser Higher Military Academy.
- National and strategic security from Nasser Higher Military Academy.
- Software maintenance and evolution from AUC.
- Software Analysis and Design from AUC.
- Design patterns from Pluralsight.

- International Standard of Testing Quality Board (ISTQB).
- Software engineering and information systems quality assurance.
- Strategic Planning from AUC.
- Introduction to Cyber Security from Cisco Networking Academy.
- Penetration Testing and Ethical Hacking from Cybrary.
- Advanced Ethical Hacking from Coursera.
- ISO/IEC 27001 Information Security Management from Udemy.
- ISO 27001:2022 Lead Auditor Course from Udemy.
- SEC511: Continuous Monitoring and Security Operations from SANS Institute.
- Advanced Exploit Development for Penetration Testers from Udemy.
- COBIT Foundation from isaca.
- Hacker Tools, Techniques, and Incident Handling from SANS Institute.
- SANS SEC566: Implementing and Auditing CIS Controls from SANS Institute.
- Malware Analysis and Reverse Engineering from Udemy.
- Information Security Management System (ISMS) from [linkedin.com/learning](https://www.linkedin.com/learning).
- Security Operations and Monitoring Analysis from Pluralsight.
- Cloud Security with Google Cloud from Udemy.
- Zero Trust Security Model from Microsoft.
- Risk Management Framework (RMF) for Federal Agencies from NIST.
- Governance, Risk and Compliance for Cybersecurity from Pluralsight.
- NIST Cybersecurity Framework (CSF) from Coursera.
- Java Diploma from ITShare.

Scientific Papers

- M. M. Draz, M. S. Farhan, S. N. Abdulkader and M. G. Gafar, "Code smell detection using whale optimization algorithm", *Comput. Mater. Continua*, vol. 68, no. 2, pp. 1919-1935, 2021.
- Draz, M. M., Emam, O. & Azzam, S. M. "Software cost estimation prediction using a convolutional neural network and particle swarm optimization algorithm", *Sci Rep* 14, 13129, 2024.
- Draz, M. M., Emam, O. & Azzam, S. M. "Five Decades of Software Cost Estimation: A Survey", *FCI-H Informatics Bulletin*, 2024.
- Draz, M. M., Emam, O. & Azzam, S. M. "Software Cost Estimation Using XGBoost Algorithm", *FCI-H Informatics Bulletin*, vol 7, issue 1, 2025.
- M. M. Draz, O. Emam, and S. M. Azzam, "A Predictive Model for Software Cost Estimation Using ARIMA Algorithm," *International Journal of Advanced Computer Science & Applications*, vol. 15. no. 7, 2024.

