

Enas Mohamed Fathy

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Address Cairo, Egypt

Lecturer in Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

I have a PhD in Information Systems with academic and industry experience since 2011. I am a university lecturer and researcher specializing in software quality, agile methodologies, and machine learning applications. Demonstrated expertise in teaching, research supervision, and software testing

KEY SKILLS

Teaching & Academic Skills

- Curriculum design and development for undergraduate courses
- Strong pedagogical knowledge in Information Systems and Software Engineering
- Course delivery and classroom management using active learning strategies
- Experience in supervising student projects
- Preparation of academic materials: lecture notes, lab manuals, assignments, and exams
- E-learning tools and Learning Management Systems (LMS): Moodle, Blackboard
- Academic advising and mentoring
- Strong presentation and public speaking skills

Research Skills

- Expertise in research methodology and academic writing
- Conducting and publishing peer-reviewed journal and conference papers
- Proposal writing and research
- Data collection, analysis, and visualization using statistical tools
- Machine learning applications in software quality
- Literature review and systematic mapping techniques
- Collaboration on interdisciplinary academic projects

Software Engineering & Quality Assurance

- Software Quality Assurance Concepts & Process Improvement
- Software Testing Concepts & Techniques
- Test Maturity Model Integration (TMMI), Agile Testing
- Software Project Management and Configuration Management

- Software Analysis and Design using UML
- CMMI Model, ITIL Framework

Programming & Tools

- Programming: C#, C/C++, Java
- Web Development: HTML, JavaScript, XML, ASP.NET
- Database Technologies: SQL Server (2000–2008), Oracle SQL/PLSQL
- Development Environments: Visual Studio .NET, Microsoft Visual C# .NET
- Testing Tools: TFS (Team Foundation Server), Test Design, Traceability Matrices

EXPERIENCE

Assistant Lecturer

Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

April 2017 – April 2025

Teaching Assistant

Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

Dec 2011 – March 2017

Senior Quality Engineer

Modern Computing Services, Cairo, Egypt

August 2010 – March 2013

- Working in testing Survey, Drilling and HR applications.
- Review the Software Requirements Specification and other test basis.
- Constructing Test Design.
- Developing & executing test cases.
- Create Test Summary Report & Defect Summary Report.
- Processes to communicate with other teams.

PUBLICATIONS

1. Farid AB, Fathy EM, Sharaf Eldin A, Abd-Elmegid LA. 2021. Software defect prediction using hybrid model (CBIL) of convolutional neural network (CNN) and bidirectional long short-term memory (Bi-LSTM) PeerJ Computer Science 7:e739 <https://doi.org/10.7717/peerj-cs.739>
2. Bahaa, A., Fathy, E. M., Eldin, A. S. & Abd-Elmegid, L. A. (2021). A Systematic Literature Review of Software Defect Prediction Using Deep Learning. Journal of Computer Science, 17(5), 490-510. <https://doi.org/10.3844/jcssp.2021.490.510>
3. Ahmed B. Farid, Enas M. Fathy and Mahmoud Abd Ellatif, "Towards Agile Implementation of Test Maturity Model Integration (TMMI) Level 2 using Scrum Practices" International Journal of Advanced Computer Science and Applications (IJACSA), 6(9), 2015. <http://dx.doi.org/10.14569/IJACSA.2015.060931>

EDUCATION

PhD degree in information systems

Dissertation topic: Proactive Software Quality Control Using Machine Learning
Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

Dec 2022

Master's degree in information systems

Thesis topic: Towards Agile Implementation of Test Maturity Model Integration (TMMI) Using Scrum Practices

Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

August 2016

Professional Diploma in Testing and Quality Assurance (9 Months Program)

Information Technology Institute (ITI), Egypt

July 2010

B.Sc. in Information Systems

Grade of Excellent with percentage 85.09% rated the 2nd of department of Information systems
Faculty of Computers and Artificial Intelligence, Helwan University, Egypt

May 2009

CERTIFICATIONS / TRAININGS

- ISTQB Certified Tester Foundation Level (July 2011)

PERSONAL SKILLS

- Ability to work under pressure
- Ability to work within a team
- Hard Worker
- High Communications Skills
- High Presentation Skills
- Proactive and Self-Motivated

LANGUAGES

- Arabic: Native
- English: Very good

PERSONAL PROFILE

- Nationality: Egyptian
- Marital Status: Married

REFERENCES

- References available upon request

الصورة الشخصية	إيناس محمد فتحى	الاسم
	Enas Mohamed Fathy	Name
	EM Fathy	الاسم المستخدم فى النشر العلمى
	مدرس بكلية الحاسبات والذكاء الاصطناعي جامعة حلوان	الوظيفة الحالية وجهة العمل
	دكتوراه فى نظم المعلومات جامعة حلوان مصر	الدرجة العلمية (اسم الجامعة والدولة)
	Information systems	التخصص العام
	Quality and deep learning	التخصص الدقيق
	Enasm.fathy@gmail.com	البريد الإلكتروني
	دكتوراه فى نظم المعلومات جامعة حلوان مصر	المؤهلات العلمية
		السيرة الذاتية
	Farid AB, Fathy EM, Sharaf Eldin A, Abd- 1 Elmegid LA. 2021. Software defect prediction using hybrid model (CBIL) of convolutional neural network (CNN) and bidirectional long	الأبحاث المنشورة

	<p>short-term memory (Bi-LSTM) PeerJ Computer Science 7:e739 https://doi.org/10.7717/peerj-cs.739</p> <p>Bahaa, A., Fathy, E. M., Eldin, A. S. & Abd- .2 Elmegid, L. A. (2021). A Systematic Literature Review of Software Defect Prediction Using Deep Learning. Journal of Computer Science, 17(5), 490-510. https://doi.org/10.3844/jcssp.2021.490.510 .3</p> <p>Ahmed B. Farid, Enas M. Fathy and .4 Mahmoud Abd Ellatif, "Towards Agile Implementation of Test Maturity Model Integration (TMMI) Level 2 using Scrum Practices" International Journal of Advanced Computer Science and Applications (IJACSA), 6(9), 2015. http://dx.doi.org/10.14569/IJACSA.2015.060931</p>	
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