

**Dr. Shereef Abu Al-Maati**  
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## Education

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**Ph.D. in Computer Science**, Florida Institute of Technology, Florida, 1998  
**M.Sc. in Computer Science**, Florida Institute of Technology, Florida, 1987  
**B.Sc. in Computer Science**, American University, Washington D.C., 1984

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## Professional Experience

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**9/09 – Current: Associate Professor**, Computer Science, American University of Kuwait

**5/14 – 5/17: Founding Board of Trustee Member**, Kuwait National Bureau for Academic Accreditation and Quality Assurance, Ministry of Higher Education, Kuwait.

**9/12 – 5/15: Department Chair**, Computer Science & Information Systems, American University of Kuwait

**3/06 – 8/12 : Founding Division Head**, Sciences & Engineering, American University of Kuwait

- Leadership & direction of programs in Computer Science, Information Systems, Computer Engineering, Mathematics, Biology, Chemistry, & Physics.
- Manage Class Scheduling and Faculty Workload
- Faculty Assessment
- Faculty Recruitment
- Budget planning & allocation
- Networking with local organization to develop internships
- Coordinating curriculum planning and ensure quality of course offerings
- Develop new degree programs & Advise CSIS majors
- Strategic & Operational Planning for a new Engineering campus.

**7/04 – 08/09: Assistant Professor**, Computer Science, American University of Kuwait

Taught the following Computer Science and Information Systems courses:

- Introduction to Information Systems
- Computer & Information System
- Introduction to Computer Programming I
- Introduction to Computer Programming II
- Data Structures & Analysis of Algorithms
- Computer Science Internship
- Computer Science Capstone
- Computer Science Special Topics
- Advise CS & IS Students

**6/04 – 7/04: CTY Faculty**, John Hopkins University, Baltimore , Maryland

- Computer Science, visiting professor

**8/00 – 5/04: Assistant Professor**, Computer Science Dept, State University of West Georgia, GA

Taught the following Under Graduate / Graduate computer science courses:

- Introduction to Application Software Development I & II, Fall 00, Spring 01 & Fall 02 (UG)
- Principles of Programming Languages, Spring 01 & 02, Fall 03 (UG)
- Database Systems, Fall 02 (G)
- Advanced Database Systems, Spring 03 (G)
- Senior Software Engineering Capstone, Spring 03 (G)

**Assistant Professor**, Computer Science Dept, State University of West Georgia, GA,...continued

- Introduction to Computer Science I, Fall 01, & 03 (UG)
- Information Management Systems, Fall 00, 01, 02 & 03 (UG)
- Web Design and Development, Spring 02 (UG)

**6/03 – 7/03: Instructor**, Georgia Governor Honors Program, Valdosta State University, GA

- Web Development. Instructor

**5/01 – 8/01: Consultant**, Internet Commerce Corporation, New York, NY.

- Designed & developed a software package for the shipment industry to track and manage goods ordered and delivered between manufacturers & wholesalers such as Wall Mart and Dillard's.

**01/99 – 7/2000: Researcher**, Techno Economics Division, Kuwait Institute for Scientific Research

- Software engineer consultant developing a pilot study for a web enabled real time Kuwait Stock Exchange portfolio asset manager system.
- Developed and taught a 30 day in-house training course, Introduction to Java, for 23 employees from various interdisciplinary fields, petroleum, engineering and the economics departments
- Investigator & Analyst for the Kuwait Paper Plant Manufacturing Company.
- Conducted feasibility studies for providing IT services to local government sectors.
- Developing 3 year IT program plan for Dept.
- Lead designer and developer for the Kuwait Economic Data Bank Web System
- Supervising and mentoring 3 research assistants

**9/95 - 5/98: Graduate Teaching Assistant**, Florida Institute of Technology, Melbourne, FL.

Taught the following computer science courses:

- Introduction to Software Engineering, Spring 98
- Lab. Fundamentals of Software Development I & II, Fall 97 & Spring 98
- Principles of Systems Development I & II, Fall 95 & Spring 96

**5/97 - 8/97: Consultant**, Emergency Operations Center, Vero, FL.

- Designed & developed an Information System to track and maintain hurricane evacuation information.

**8/87 - 9/92 Software Engineer**, Kuwait Institute for Scientific Research.

- Member of a team that developed and documented the entire development software life cycle for a large on-line management information system, the "Kuwait Operational Readiness System (KORS)", which automated the Kuwait Air Force (KAF) Operational activities.
- KORS tasks included requirements gathering, analysis modeling, requirements specification, high & low level design, data modeling, data base design, coding, walkthroughs, technical reviews. Implementation was for an IBM DB2 relational database system running on MVS/IBM3090, using DB-2 SQL as the Database language and ADF as the 4<sup>th</sup> generation language for developing the MIS.
- Member of a team jointly working along with Martin Marietta Data Systems, IBM and the US Navy on the interface requirements between KORS and the Kuwait Automated Support System (sub systems developed by third parties).
- Liaison representative between the KORS project and the KAF steering committee.
- Member of a team that contributed \$4,000,000 in savings, as a result of undertaking the KORS project.
- Designed and developed an aircraft scheduling system for the Kuwait Air Force transport squadron to maximize the number of unplanned missions.
- Managed the budget (\$200,000) for the division's software and hardware needs.
- Served as a system manager for the division computer network.
- Received a scholarship to pursue a Ph.D. degree in computer science.

**9/83 - 5/84: Intern programmer**, National Institute of Health (NIH), Bethesda, Maryland

- Designed & implemented a statistical software package in Pascal for the IBM 370.

## Academic Committees Served

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### ○ Department

- Member, ABET CSIS Committee, Fall 2015- current, AUK
- Chair, ABET CSIS Accreditation, (2014-2015) AUK
- Department Chair, CSIS, American University of Kuwait, (9/12 – 5/2015)
- Member, Service Course Committee, Computer Science Department, (Fall 2000 / Fall 2001) UWG, USA
- Member, ABET Computer Science Committee, (Fall 2001-Spring 2003 ), UWG, USA
- Chair, Graduate Curriculum Committee, Computer Science Department,(Fall 2002 / Spring 2004) UWG, USA
- Member, Search and Selection Committee, Computer Science Department, (Fall 2000 / Fall 2003) UWG, USA
- Faculty Chapter Advisor, Upsilon Pi Epsilon, Computer Science Student Honor Society (Aug 2000 / Aug 2003) UWG, USA

### ○ College level

- Chair, CEAS Hiring Committee, 2022/2023, AUK
- Member, CEAS Industrial Advisory Board, 2022/2024, AUK
- Member, CEAS Promotion Committee, 2021/2023, AUK
- Member, CEAS ABET CS Committee, 2022/2023, AUK
- Chair, Grade Appeal Committee, 2019/2020, AUK
- Chair, Advisory Panel for Student Complaints Against Faculty, 2017/2018, AUK
- Division Head, Sciences & Engineering, American University of Kuwait, (3/06 – 8/2012)
- Member, Promotion Advisory Committee to the Dean- Associate Professor (Spring10-Spring12) AUK
- Member, Deans Council, (Fall06- Spring12) AUK
- Member, Arts & Science Faculty Advisory Committee, (Fall 2001 / Spring 2004) UWG, USA

### ○ Institution level

- Member, Dean Search College of Engineering & Applied Science, 2023/2024, AUK
- Member, University International Program Committee, 2021/2023, AUK
- Member, University Academic Calendar Committee, 2021/2023, AUK
- Member, Professional Development Committee, 2022/2023, AUK
- Member, University Grade Appeal Committee, 2020/2021, AUK
- Member, Student Code of Conduct Board, 2020/2021, AUK
- Chair, Presidents Award Committee, 2015, AUK
- Member, Registrar search Committee, Jan-May 2013, AUK
- Member, Vice President for Academic Affair search Committee, Feb-Sept 2013, AUK
- Member, Engineering Campus Planning Committee (Spring 07- Spring10) AUK
- Member, Five Year Strategic Planning Committee-(Spring08-Spring10) AUK
- Chair, Academic Showcase, (Fall06-Spring11) AUK
- Chair, Presidents Award Committee 2007 AUK
- Member, Accreditation Committee, (Spring 2005/Spring 2006) AUK
- Member, Professional Development Committee, (Spring 2005/Spring 2006) AUK
- Member, ITAG Committee (Spring 07 – Fall07) AUK
- Member , Professional Development Committee, (Spring05/Spring06) AUK
- Member , Accreditation committee, (Spring05/Spring06) AUK

## Courses Taught

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### AUK, Kuwait

- Introduction to Information Systems (UG)
- Computer & Information System (UG)
- Introduction to Computer Programming I (UG)
- Introduction to Computer Programming II (UG)
- Data Structures & Analysis of Algorithms (UG)
- Programing in a Second Language (UG)
- Web Technologies (UG)
- Principles of Programming Languages (UG)

## **Courses Taught...continued**

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- Practicum in Computing & Information Systems (UG)
- Computer Science Capstone I (UG)
- Computer Science Capstone II (UG)

State University Of West Georgia, Georgia, USA

- Introduction to Application Software Development (UG)
- Principles of Programming Languages, (UG)
- Database Systems, (G)
- Advanced Database Systems, (G)
- Senior Software Engineering Capstone, (G)
- Introduction to Computer Science I, (UG)
- Information Management Systems, (UG)
- Web Design and Development, (UG)

## **Teaching Related Activities**

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1. Moodle, Course Content Management System, in the Sciences Division, Faculty Administrator (Fall06-Spring12) AUK
2. Academic Showcase, Chair, (Fall06-Spring11) AUK
3. Oscar Nights with Alice Animation Awards, Lead Faculty Supervisor, (Spring 07- Spring09) AUK
4. Created Computer Science and Information Systems Curriculum, courses and Labs (2004 – 2008) AUK
5. Created the Computer Engineering Curriculum, courses and Labs (2007 – 2009) AUK
6. AUK Head Coach Computer Programming Team. (Fall06) AUK
7. ACM Middle East & North Africa Programming Competition, Kuwait Judge (11/05) AUK
8. Upsilon Pi Epsilon, Faculty chapter advisor computer science student honor society (Aug 00 / Aug 03) UWG

## **Professional Development**

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1. International Quality Assurance Program, QAA London, England Oct 6-10, 2014
2. ACM SIGCSE, Atlanta Georgia, March 5-8, 2014
3. ABET, IDEAL workshop, Baltimore Maryland, Aug 2-6, 2010
4. Georgia Institute of Technology, Media Computation and Computer Science, NSF Workshop, May 2008
5. Carnegie Mellon University, Alice & Computer Science, NSF Summer Program, July 2007.
6. Harvard Executive Program on Education Reform, John F. Kennedy School of Government at Harvard University, sponsored by KFAS, Oct 28<sup>th</sup>- Nov 7<sup>th</sup>, 2007
7. Harvard Executive Program on Education Reform, John F. Kennedy School of Government at Harvard University, sponsored by KFAS, 04/06

## **Membership in Professional Societies**

- ACM

## **Patents, Honors and awards**

- Harvard Executive Program on Education Reform, John F. Kennedy School of Government at Harvard University, by KFAS, 10/07 – 11/07
- Harvard Executive Program on Education Reform, John F. Kennedy School of Government at Harvard University, by KFAS, 04/06 – 05/06

## **Book Chapter**

- Talal Al-Failakawi , Yousef Landoulsi , Shereef Abu Al-Maati, "*CCTV AI-based System with Custom Object Detection and Video Upscaling Model* ", Book title: *Advances in Machine Learning for Real World Applications*, Springer Nature Publisher, 2024

## **Refereed Journal & Conference Publications**

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- Ahmad Rabaai, Shereef Abu Al-Maati, Nooh Muhamad, Enas Eljamel, *Understanding mobile payments through the lens of innovation resistance and planned behavior theories*, *Uncertain Supply Chain Management Journal*, Growing Science Publishers, pp 45-63, Vol 12, Issue 1, 2024
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- Ahmad Rabaai, Shereef Abu Al-Maati, Nooh Muhamad, Enas Eljamel, *Barriers to Invest in NFTs: An innovation resistance theory perspective*, Uncertain Supply Chain Management Journal, Growing Science Publishers, pp610-614 Vol 12, Issue 1, 2023
- Ahmad A. Rabaa'i, Nooh Muhammad, Shereef Abu Al-Maati, *Information System Support (IS Support): Theoretical Development and Empirical Validation*, International Journal of Data and Network Science, Vol 6 Issue 4, pp1501-1518, 2022
- Ahmad A. Rabaa'i, Shereef Abu Al-Maati, *Exploring the Determinants of Users' Continuance Intention to Use Mobile Banking Services in Kuwait: Extending the Expectation-Confirmation Model*, Asia Pacific Journal of Information Systems, Vol 31 No 2, June 2021
- Rabaa'i, Ahmad A., Bhat, H. and Al-Maati, S.A. "Theorizing social networks addiction: an empirical investigation", International Journal of Social Media and Interactive Learning Environments, Vol. 6, No. 1, pp.1-24, 2018
- Ahmad A. Rabaa'i, Aaron Rasheed Rababaah, Shereef Abu Al-Maati, "Comprehensive guidelines for ABET accreditation of a computer science program: the case of the American University of Kuwait", International Journal of Teaching and Case Studies, Volume 8, Number 2/3, 2017
- E Omran, T Grandison, S Abu Almaati, "Healthcare Chains – Seamless and Non-Intrusive Enablement of Application and Data Privacy Controls for Healthcare Information System", 13<sup>th</sup> World Congress on Medical Health Informatics, Sept 2010, Cape Town, South Africa
- Shereef Abu Al-Maati, Issam Damaj, "Developing a Sustainable Engineering Education in the Middle East and North Africa Region", IEEE & IBM, Transforming Engineering Education: Creating Interdisciplinary Skills for Complex Global Environments, Dublin, Ireland, 6-9 April 2010.
- Esraa Omeran, Albert Bokma, Shereef Abu Al-Maati, David Nelson "Ontology Based: A model for protecting personal information privacy," Journal of Digital Information Management, Volume 7 Number 5, October 2009 pages: 270-275
- Omran Esraa; Bokma Albert; Abu Al-Maati Shereef; "A K-anonymity Based Semantic Model For Protecting Personal Information and Privacy", *IEEE International Advance Computing Conference (IACC'09)*.
- Omran Esraa; Bokma Albert; Abu Al-Maati Shereef, "Hippocratic ontology based: A model for protecting personal information privacy"; 11th International Conference on Enterprise Information Systems (ICEIS), Milan Italy May 2009
- Esraa Omran, Albert Bokma, Shereef Abu Al-Maati, "Chain Ontology Based: A Model For Protecting Personal Information Privacy", IEEE 3<sup>rd</sup> International Conference Digital Information Management Nov 2008.
- Luiz Capretz, Faheem Ahmed, Shereef Abu Al-Maati, Zaher Alghabari, "COTS-Based Software Product Line Development", International Journal of Web Information Systems, Vol 4, No 2, 2008.
- Shereef Abu Al-Maati, "Branding Liberal Arts", 3<sup>rd</sup> Liberal Arts Conference AUK, Liberal Arts Education and Tomorrows Professional, May 2008, AUK.
- Luiz Capretz, Faheem Ahmed, Shereef Abu Al-Maati, "Following a Seamless Component-Based Software Process", 9th International Conference on Information Integration and Web-Based Applications & Services, Dec 3<sup>rd</sup> 2007.
- Shereef Abu Al-Maati and Kamel Rekab, "Dynamic Test Allocation Model for Software Reliability", *IEEE Third International Conference on Quality Software*, Nov 6 2003
- Shereef Abu Al-Maati and Kamel Rekab, "Optimal Test Allocation Model for Estimating Software Reliability" *7th IASTED International Conference on Software Engineering and Applications 2003*
- Shereef Abu Al-Maati, A. Boujarwah, "Literate Software Development", *ACM Journal of Computing in Small Colleges* p.278-289, Vol. 18 issue 2, Dec 2002
- S. Abu Al-Maati and W.D. Shoaff, "Integrating Literate Programming and Cleanroom Software Engineering to Teach Software Engineering Skills", *2nd ACM Australian Conference on computer science education*, July 1997.

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**Conference Organization**

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- Scientific Committee Member, 1<sup>st</sup> conference on Water Policy and Associated Technological Challenges in Arid Dynamic Environments: The Special Case of Arabian Gulf Countries, April 2008, AUK

## Joint Agreement

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- IBM Almaden Research Center, San Jose, CA, USA, Feb 2010 – April 2012

## Conference Proceedings & Academic Book Reviewer

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- IEEE Global Engineering Education Conference 2023, *Awards Committee*, Member & Reviewer, May 1- 4th 2023, Kuwait.
- 18th Annual Conference on Information Technology Education and the 6th Annual Conference on Research in Information Technology, SIGITE/RIIT 2017, October 4 – 7, 2017, Rochester Hotel, New York
- Reviewer, Robert W. Sebesta, “Programming the World Wide Web”, 2<sup>nd</sup> edition, *Addison Wesley*, 2003
- Reviewer, Philip M. Lewis, Arthur Bernstein, and Michael Kifer, “Databases and Transaction Processing”, 2<sup>nd</sup> edition, *Addison Wesley*, 2003
- Reviewer, David Gries & P. Gries, “ProgramLive”, *John Wiley*, 2003
- Reviewer, 7th IASTED International Conference on Software Engineering and Applications, Nov 3, 2003, Marina del Rey, CA, USA
- Reviewer, 5<sup>th</sup> ACM Annual Consortium for Computing Sciences in Colleges, Northwestern Oct 3, 2003

## Grants

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- Shereef Abu Al-Maati (PI), “Computing and Communication Corridors Linking High Schools and Universities in Kuwait: an Innovative Approach”, Kuwait Private University Council Research Fund, Jan 2008, \$135,000.
- Shereef Abu Al-Maati (PI), *31<sup>st</sup> ACM ICPC funding*, Kuwait Foundation for the Advancement of Science, Dec 2006, \$17,000.
- Co-Principal Investigator, “Imagine Cup Finals 2010”, Kuwait Foundation For the Advancement of Sciences KFAS, May 2010, (KWD 7,574)

## Industry Consultation

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- 01/08-06/08: Kuwait Institute for Scientific Research, “A Web-Based Compensation Claim Data Management and Analysis System”.
- 09/04-09/05: FAPCO, “A Heterogeneous Web Based Asset Portfolio Management System for the Kuwait Stock Exchange”.
- 5/01 – 8/01: Consultant, Internet Commerce Corporation, New York, NY, USA
- 5/97 - 8/97: Consultant, Emergency Operations Center, Vero, FL, USA

## PhD Advisor

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- Esraa Omran, “Securing Access to Personal Information Using Ontology Based Chains”, Local PhD Advisor, University of Sunderland, England, 2008-2012.