



AHMED S. SHATNAWI

Software Engineer | Security Expert

SKILLS

Java, .NET Framework 13+ yrs

MYSQL, Oracle 13+ yrs

JavaScript, PHP, XML, AJAX, CSS 13+ yrs

Windows (Client and Server), Linux, UNIX 13+ yrs

Html/CSS 13+ yrs

Javascript 13+ yrs

Verilog, VHDL 10+ yrs

CONTACT

J.U.S.T.

SE Department
IRBID, JORDAN

+962 7910 80 357

shatnawi@shatnawi.info



PROFILE

I am an assistant professor in the Software Engineering, Network Engineering and Security departments at Jordan University of Science and technology with extensive experience in Software Engineering and information security. My research interests lie primarily in the intersection of software engineering, information security, and human-computer interaction.

I am especially interested in finding better ways to design software systems that are safe, secure, and reliable to use. I received his Ph.D. in Engineering from the University of Wisconsin Milwaukee in 2017 and his M.S. in Software Engineering from George Mason University in 2012.

EDUCATION

- Ph.D. Computer Science, University of Wisconsin-Milwaukee, 2017
Dissertation: Enhanced Version Control for Unconventional Applications.
Supervised by Ethan V. Munson
- Msc. Software Engineering, George Mason University, 2012
- PBsc. Computer Engineering, Jordan University of Science And Technology, 2007

WORK EXPERIENCE

Jordan University of Science & Technology, Jordan
Assistant Professor

Jan 18 - NOW

I prepared assignment, quiz, exam, lecture, and lab activity for courses fresh each semester. Evaluated hundreds of students over six semesters.

Designed the syllabus, course structure, and focus for:

- Special Topics in Computer Engineering
- Web Applications Security.
- Software Security

Redesigned the coursework and lectures of an existing following course:

- Cryptography and Network Security
- Software Engineering for Web Applications

EDUCATION

2013 - 2017

Ph.D. Computer Science.
University of Wisc.-Milwaukee

GPA: 3.91 / 4.0

2010 - 2012

M. Sc. Software Engineering.
George Mason University

GPA: 4.0 / 4.0

2001 - 2006

B. Sc. Computer Engineering.
J.U.S.T.



Jordan University of Science & Technology, Jordan
Vice Director of ITCC

Sep 18 - Sep 19

Assists in the planning, development, and management of new automated information systems and enhancements to existing automated systems at JUST. Performed network and system penetration testing. Communicates risks and recommendations to mitigate risks to ensure the security of information systems and information entrusted to the University. R&D to address the challenges created by the introduction of new technologies.

University of Wisconsin-Milwaukee
Graduate Teaching Assistant

Aug 14 - Dec 17

Primary instructor: prepared assignments, quizzes, exams, lectures, and lab activities for intermediate programming using Java (Spring 2017).

Ran laboratories and graded for six courses including:

- Introductory Computer Programming (CS 250)
- Intermediate Computer Programming (CS 251)
- Data Structures and Algorithms (CS 351)
- Introduction to Computer Security (CS 469)
- Text Retrieval and Its Applications in Biomedicine (CS 744)
- Introduction to Database Systems (CS 557)

University of Wisconsin-Milwaukee

Security Coordinator-Risk Assessment Support

Jan 14 - Aug 14

Managing U.W.M vulnerability scanner, which is integrated in U.W.M Risk Assessment process and used for general vulnerability scanning. A major part of my role was to work with clients to setup scanning sites, create scan templates, running scans (Scheduled and ad hoc), and remediating findings.

- Worked with System administrators to fix security issues on servers and workstations found using a vulnerability scanner.
- Managed vulnerability scanner.
- Worked on various technical and non-technical projects for the office as assigned. (Worked on a web vulnerability scanner project. Worked on and completed the project to change the authentication for the scanner to the Active Directory).
- Developed two automated tools for the office using C#.

Blue Sky Broad band

Senior Engineer and Operational Manager

Aug 12 - Mar 13

Responsible for the ISP infrastructure including performance and quality of service

- Designed LAN/WAN and configuring routers and switches according to the network design.
- Installed, maintained, and supported Linux Servers (i.e. AAA, SIP and web server).
- Installed, configured, and monitored wireless devices (Alvarion, Motorola, Radwin, and Ubiquity).

- Web applications and services development using C#, ASP.NET and JavaScript

George Mason University

Jun 11 - Aug 11

Web application programmer-Intern

- Developed an open-source standalone Application to utilize the cloud computing to support earth and geography science communities. Windows Azure Platform was used.

Jordan University of Science & Technology, Jordan

Jan 07 - Aug 10

Teaching Assistant

- Trained undergraduate students on new technologies, including using the Verilog Hardware Description Language; on lab tools; and on relating theories to practice.
- Taught students how to write synthesizable code to implement digital circuits using Altera Quartus II Software.
- Supervised the systems programming course projects which included the design and implementation of emulators, assemblers, linkers and loaders.
- Taught the web technologies lab which primarily focused on web applications design and development. Several technologies were used in the lab including ASP.NET and Ajax.
- Helped in designing the lab component of several courses including Hardware Description Languages, Visual Programming, Computer Networks, and Systems Programming

iHorizons

Aug 06 - Jan 07

Software Engineer-Intern

Part of the team that developed the intranet of the Ministry Of Economy and Commerce in Qatar. My role was focused on SharePoint Technology. I built Web applications and services using C#, ASP.NET and JavaScript. Also, development internal libraries using C++ and C.

SERVICE AND PROFESSIONAL ACTIVITIES

- Founder of the OWASP Irbid chapter, 2021
- Program Committee, The 18th International Conference on Mobile Systems and Pervasive Computing August 9-12, 2021, Leuven, Belgium
- Scientific Committee, Blockchain Technology Virtual Conference (IFERP), 2020.
- Industry Engagement Committee, Faculty Of Computer Information Technology at J.U.S.T, Jordan, Sep 2019-Now.
- Technical Program committee, 14th International Conference on Innovations in Information Technology (IIT), UAE 2020.
- Quality Assurance Committee, Software Engineering Department at J.U.S.T, Jordan, Sep 2020-Now.

- Conducted a full risk assessment and penetration testing for King Abdullah University Hospital (KAUH), Jordan, 2019.
- Training of Trainers (TOT), One Million Jordanian Coders, Jordan, 2019-2020.
- Curriculum Development Committee, Software Engineering Department at J.U.S.T, Jordan, 2018-2020.
- Graduation Project Committee, Software Engineering Department at J.U.S.T, Jordan, 2018-2020.
- Member, CMS Induction Project for the Jordan University of Science and Technology, Jordan-Switzerland, 2020-Now.
- Member, High availability (HA) center feasibility study Committee, Jordan University of Science and Technology, 2020.
- Council Member of the Information Technology Communications Center (ITCC) at J.U.S.T, Jordan 2019 - 2020.
- Steering Committee, Innovation and Entrepreneurship Conference, Jordan, 2020.
- Steering Committee, The 32nd International Conference on Microelectronics, 2020.
- Technical Committee, International Conference on Computer and Communication Systems(ICCCS), China 2020, 2021.
- Session Chair of "Security, privacy, and digital forensics", 11th International Conference on Information and Communication Systems (ICICS), Jordan 2020.
- Track Chair of "Software and web Engineering", 10th International Conference on Information and Communication Systems (ICICS), Jordan 2019.
- Reviewer Ad Hoc Networks Journal. 2019
- Project Security Advisor, J-SANDS: Jordan Stillbirths and Neonatal Deaths Surveillance and Auditing System project, Jordan, 2019-2020
- Member of "Innovation and creativity Committee", Faculty Of Computer Information Technology, J.U.S.T, Jordan, 2018-2019.

AWARDS AND HONORS

- Chancellor's Graduate Student Award - UWM, 2015, 2016, and 2017.
- ACM SIGSOFT, CAPS Travel Award, 2016
- PHI KAPPA PHI Honor Society, 2016
- Distinguished Academic Achievement Award - Department of Computer Science, GMU, 2012.
- Outstanding Academic Achievement Award - Office of International Programs and Services, GMU, 2012.
- J.U.S.T Graduate Fellowship, a scholarship from J.U.S.T to obtain Master's and PhD degrees in Computer science, 2010.

PUBLICATIONS

- Ahmed S Shatnawi, Ethan V Munson; "Interactive and Scalable visualization framework for Version-aware XML documents"; ACM Symposium on Document Engineering 2020

- Luay Alawneh, Belal Mohsen, Mohammad Al-Zinati, Ahmed Shatnawi, Mahmoud Al-Ayyoub; "A Comparison of Unidirectional and Bidirectional LSTM Networks for Human Activity Recognition"; 2020; IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops)
- M. Al-Rawashdeh; Ziad A. Al-Sharif ; Mohammed I. Al-Saleh ; Ahmed S. Shatnawi; "A Post-Mortem Forensic Approach for the Kik Messenger on Android; 2020; 11th International Conference on Information and Communication Systems (ICICS).
- Ziad A. Al-Sharif, Mohammed I. Al-Saleh, Yaser Jararweh, Luay Alawneh and Ahmed S. Shatnawi; "The Effects of Platforms and Languages on the Memory Footprint of the Executable Program: A Memory Forensic Approach," In the special Issue of J.UCS entitled "Recent Advances in Detection, Investigation and Mitigation of Cyber Crimes". Submitted on December 22, 2018, revised on May 28, 2019, Accepted on July 9, 2019, and Appeared: 28/9/19.
- Shatnawi, Ahmed S., and Ethan V. Munson. "Enhanced Automated Policy Enforcement eXchange framework (eAPEX)." In Proceedings of the ACM Symposium on Document Engineering 2019, p. 30. ACM, 2019.
- Shatnawi, Ahmed, Nicholas Coley, and Hani Titi. "Interactive Data Framework and User Interface for Wisconsin's Oversize-Overweight Vehicle Permits." Data 3, no. 2 (2018): 20.
- Shatnawi, Ahmed, Ethan V. Munson, and Cheng Thao. "Maintaining Integrity and Non-Repudiation in Secure Offline Documents." In Proceedings of the 2017 ACM Symposium on Document Engineering, pp.59-62. ACM, 2017.
- S. Abdel-Hafeez, A. Gordon-Ross, A. Albosul, A. Shatnawi, and S. Harb. "A Shadow Dynamic Finite State Machine for Branch Prediction: An alternative for the 2-bit Saturating Counter.";2011; ACM International Journal of Computing and Informatics (Informatica), Volume 35, Number 1, February 2011.

GRADUATE STUDENT SUPERVISION/CO-SUPERVISED

- **Current students:** Fatima Sharadgah (MSc), Wafaa Al-Kkahla (MSc)
- **Past Students:** Mahmoud Dwairi (MSc);

Served on MS dissertation committees of Asmaa Bataineh, Obadah Shatnawi, and Toqa' Abu Zaitoun