

# AHMED S. SHATNAWI

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**Advisor:** Professor, Ethan V. Munson

## EDUCATION

M.S.	2012	Software Engineering	George Mason University, Fairfax, VA
B.A.	2007	Computer Engineering	Jordan University Of Science And Technology, Irbid, Jordan

## PUBLICATIONS

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.

Abdel-Hafeez, Saleh, Ann Gordon-Ross, Asem Albosul, Ahmad Shatnawi, and Shadi Harb. "A shadow dynamic finite state machine for branch prediction: an alternative for the 2-bit saturating counter." Informatica 35, no. 2 (2011).

## WORK EXPERIENCE

**University of Wisconsin–Milwaukee WI, USA** **8/2014-12/2017**

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Computer Science Department

**Graduate Teaching Assistant**

- Primary instructor: prepared assignments, quizzes, exams, lectures, and lab activities for intermediate programming using Java (Spring 2017).
- Ran laboratories and graded for five additional courses including:
  - Introductory computer programming
  - Data structures and algorithms
  - Introduction to computer security
  - Text retrieval and its applications in biomedicine
  - Introduction to database systems.

**University of Wisconsin–Milwaukee WI, USA** **1/2014-8/2014**

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Information security office

**Security Coordinator-Risk Assessment Support**

- 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, MN, USA**

**8/2012-1/2013**

***Senior Engineer***

- 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 the operation of wireless devices (Alvarion, Motorola, Radwin, and Ubiquity).
- Web applications and services development using C#, ASP.NET and JavaScript.

**George Mason University, VA, USA**

**6/2011-8/2011**

Center of Intelligent Spatial Computing for Water/Energy Science

***Web application programmer***

- Developed an open-source standalone client to utilize the cloud computing and WPS services to support Earth and geography science communities. Windows Azure Platform was used.

**JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, Irbid, Jordan**

**2/2007-8/2010**

Department of Computer Engineering

***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, Systems Programming

**HORIZONS MEDIA AND INFORMATION SERVICES, Amman, Jordan**

**9/2006-1/2007**

***Software Engineer***

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

**Awards And HONORS**

- Chancellor's Graduate Student Award - UWM, 2015, 2016, 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.

**COMPUTER SKILLS**

**Programming/Scripting:** C++, .NET Framework (C++ .NET, ASP.NET and C#), JAVA, XHTML, JavaScript, PHP, XML, AJAX, CSS, Servlet, JSP, JSON, MVC.

**Assembly Languages:** MIPS R2000, Motorola 68000

**Hardware Description:** Verilog

**Database Systems:** MYSQL, Oracle

**Operating Systems:** Windows (Client and Server), Linux, UNIX