CURRICULUM VIATE

Personal Details
- Name: Rawaa Putros Polos Qasha
- Date of birth: 18/08/1975
- Nationality: Iraq
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Education
- PhD in Computing Science: Newcastle University/UK; Sep. 2013 –Dec. 2017
- MSc Computer Science: Mosul University/Iraq; Sep. 1998 – July 2000; Total Average: 79.70
- BSc Computer Science: Mosul University/Iraq; 1993 – 1997; Total Average: 78.37

Research Interests
I am interested in the management of Distributed System (Workflow and IoT) in the Cloud, such as modeling, deployment, reproducibility, and performance optimization. My PhD project primarily focuses on automating the deployment and reproducibility of scientific workflow in the Cloud and optimizing workflow provisioning.

Publication
- Journal
  1. 2018, Zhenyu Wen , **Rawaa Qasha**, Zequn Li , Rajiv Ranjan , Paul Watson and Alexander Romanovsky "A Framework for Dynamically Deploying Workflow over Federated Clouds to Meet Security Requirements and Minimize Cost ", IEEE Transaction on Cloud Computing.
  2. 2012, **Rawaa Qasha** "Developing Multi-platform package for Remote System Administration ", International Journal of Computer Science and Information Security.
  3. 2012, **Rawaa Qasha** and Zaid Abdulelah Mundher "Developing an Auto-Detecting USB Flash Drives Protector using Windows Message Tracking Technique ", International Journal of Computer Science and Information.
- Conference (Proceeding)

  1. 2016, **Rawaa Qasha**, Jacek Cała and Paul Watson, "Dynamic Deployment of Scientific Workflows in the Cloud using Container Virtualization," in 8th IEEE International Conference on Cloud Computing Technology and Science, CloudCom 2016.
  2. 2016, **Rawaa Qasha**, Jacek Cała and Paul Watson, "A Framework for Scientific Workflow Reproducibility in the Cloud", in 2016 IEEE 12th International Conference on eScience, eScience 2016. The paper is one of the four winners for **Best of Conference Award' at IEEE eScience 2016**!
  3. 2015, **Rawaa Qasha**, Jacek Cała and Paul Watson, "Towards Automated Workflow Deployment in the Cloud Using TOSCA", in 2015 IEEE 8th International Conference on Cloud Computing, IEEECloud 2015.
- Workshop
  1. 2017, Rawaa Qasha , "Reproducibility of Scientific Workflow in the Cloud using Container Virtualization", in the "Docker Containers for Reproducible Research" Workshop (C4RR), University of Cambridge, Cambridge.

Work Experience
Lecturer in University of Mosul/Iraq, 2000-2013. I joined the department of Computer Sciences in Mosul University in 2000 as a lecturer. My main job was teaching and supervision for undergraduate study and conducting research in different computer science topics. In addition, I was a member of number of managerial committees and participating in initiatives that enhance teaching and technology level in the university.

I was a module leader for number of courses, teaching various interesting topics and in charge of preparing the course teaching materials and lab work as well as marking course work and examinations for up to 200 students. In addition, I have an excellent experience in supervision for for highly impactful undergraduate projects.

I have also contributed to the management and administration of the department and students' affairs and an active member of local conference committee, technology events, discussion panel for graduation projects and examination committee.

After finishing my PhD, I have resumed my job as Assistant Professor in the department of Computer Science with new responsibilities including: teaching and supervision of postgraduate students (High Diploma, Master and PhD) in addition to participate as a member of Viva panels.

In addition, starting from August 2018 I am a guest lecturer at Newcastle University- School of Computing as Joint research with Prof. Paul Watson and other members of the Scalable Computing Research and Group Joint research with students in the EPSRC CDT in Cloud Computing for Data Analytics.

Academic Experiences:
- Assistant lecturer in computer sciences dept. (2000-2009).
- Assistant lecturer in mathematics dept. (2001-2002).
- Assistant lecturer in college of Veterinary Medicine (2002-2003).
- Lecturer in computer sciences dept. (2009).
- Lecturer in Engineering of Electronics College (2009-2012).
- Assistant Prof. in Computing Science at in computer sciences dept. (2012).

Teaching Courses (Undergraduate):
- Data Structure with C++.
- Object Oriented Programming with C#.
- Structure Programming using C++.
- Computer Graphics.
- Image Processing.
- Operating Systems
- Programming Languages
- Distributed Systems
- System Programming

PhD Experience
- Creativity: brainstormed ideas, analyzed novel problems and candidate solutions.
- Critical thinking: analyzed feasibility of candidate solutions; implemented and evaluated candidate solutions which I contrasted against objective criteria; Demonstrated analytical thinking as I extended solutions to related problems and contexts
- Strong team player: collaborated with co-authors on scientific papers; Acquired scientific and technical writing skills; Excellent time management as I worked with hard submission deadlines.
- Middleware: implemented frameworks for dynamic deployment, reproducibility of scientific workflow in the cloud and performance optimization of workflow sharing and provisioning.

Other Work Experience
- Newcastle University Demonstrator 2015 – 2017:
  - Worked alongside fellow students; taught advanced Java, Cloud computing, Big Data, Operating Systems, Computer Network; Demonstrated leadership by engaging with students; Demonstrated clear communication and peer-to-peer collaboration skills.

Professional Service
- Local conferences and journals reviewer in Iraq
- Conference Reviewer
  - In 8th IEEE International Conference on Cloud Computing Technology and Science, CloudCom 2016.
  - In 13th IEEE International Conference on eScience, eScience 2017.
  - In 14th IEEE International Conference on eScience, eScience 2018.
- Journal Reviewer
  - Transaction of Big Data

Technical Skills and Modules
  - Solid skills with C/C++, C#, Java, Visual Basic/C++, Bash & Python scripts
  - Solid skills with data structure, visual programming and Linux system administration
  - Solid skills with Docker container virtualization and TOSCA specification
  - Hands on experience with Windows Azure, AWS Cloud and Google Cloud
  - Skills and hands on experience with IoT system