Kareem Jaradat

abedjar@gmail.com • +1-226-998-4341 • www.csd.uwo.ca/~ajarada3/ • linkedin.com/in/abedjar • London ON, Canada

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EDUCATION

SEP 2019-PRESENT — **PhD. in Computer Science**, The University of Western Ontario (UWO), Computer Science, Canada, GPA:**98%** *excellent*,

SEP 2017-AUG 2019 — **MSc. in Computer Science (thesis based)**, The University of Western Ontario (UWO), Computer Science, Canada, GPA:**95%** *excellent*,

SEP 2004-JUN 2009 — **BSc. in Computer Engineering (with honors)**, Jordan University of Science and Technology (JUST), Computer Engineering, Jordan, GPA:**88.3%** *excellent*, rank:4/76

SEP 2003-AUG 2004 — **General Certificate of Secondary Education (TAWJIHI)**, Irbid Secondary School for Boys, Science, Jordan, GPA:**93.7%** , rank:96.79%

AWARDS

APR 2021 — **UWORCS21 conference** **Won first place prize** , Western University (UWO)

2019-NOW — **Western Graduate Research Scholarship (WGRS)** **completeing PhD degree in computer science** , Western University (UWO)

APR 2019 — **UWORCS2019 conference** **Won first place prize** , Western University (UWO)

2017-2019 — **Western Graduate Research Scholarship (WGRS)** **completeing MSc degree in computer science** , Western University (UWO)

2007, 2008 — **President's list of honors** **Listed twice** , Jordan University of Science and Technology (JUST)

2004-2009 — **Dean's list of honors** **Listed eight times** , Jordan University of Science and Technology (JUST)

2006, 2007, 2008 — **MHE Scholarship** **Granted three times Awarded to the Engineering undergraduates with the highest overall GPA** , Ministry of Higher Education (MHE)

2006, 2007, 2008 — **KAFD Scholarship** **Granted three times Awarded to the Engineering undergraduates with the highest overall GPA** , King Abdullah'II Fund for Development (KAFD)

2002 — **Jordanian conference for High Schools mathematics computing** **Won first place prize** , Ministry Of Education

EXPERIENCE

SEP 2017-PRESENT — **Graduate Teaching and Research Assistant**, Western University (UWO), London, ON, Canada

OCT 2015-FEB 2017 — **Business Systems Analyst**, Saudi Ministry of defense/EJADA Systems, Riyadh, Saudi Arabia
- Requirement elicitation using combinations of techniques like brainstorming, document analysis, existed interface analysis, Interviews and prototyping
- Create and documented process descriptions, SRS documents and process flows as well as robust use cases
- Strategic development of business solutions
- Meet clients to gather their stories about what they want and evaluate, document functional business requirements
- Produce visual workflows, UML diagrams, slide presentations and infographic content to help underlying layers to digest ideas and understand the needs clearly
- Design live prototypes at the early stages of project with the latest web design libraries

- Participating in analyzing, building and UI/UX enhancing for web applications based on state of the art technologies; Asp.net MVC/WEB API , jQuery/AJAX and bootstrap/css3

MAR 2015-OCT 2015 **Senior .Net Web Developer**, Saudi Ministry of defense/EJADA Systems, Riyadh, Saudi Arabia
- Analyzing, building and UI/UX enhancing for web applications based on state of the art technologies; Asp.net MVC/WEB API , jQuery/AJAX and bootstrap/css3
- Develop/Design a simple and effective reporting methodology using only Html/css
- Architect a generic ORM-like framework that lays on the data access layer
- Develop code generation tools to fasten adopted code implementation process
- Analyze new/existing database systems through producing SRS documents
- Design live prototypes at the early stages of project with the latest web design libraries
- Design art works, print materials, web banners, mockups and vector using Adobe apps

FEB 2010-MAR 2015 **Full stack developer**, Jordan University of Science and Technology (JUST), Irbid, Jordan
- Full-Stack business process in analyzing and building web application
- Focusing on early stages of SDLC; meeting clients to gather business needs
- Visualize business requirements into wireframes, mockups and demos with full functionalities
- Building web application using Asp.net/C# & web graphics

2009-PRESENT **Web Developer/Graphic Designer**, Freelancer, -, Jordan, KSA, Australia, Germany, Qatar, Canada and UAE

JAN 2013-JUN 2013 **Software Development Engineer**, Integrated Horizons for Training (IHT), Irbid, Jordan

AUG 2009-JAN 2010 **GUI & Software Development Engineer**, CIAPPLE, Amman, Jordan

FEB 2009-AUG 2009 **Software Development Engineer**, Systems and Electronic Development Co (SEDCO), Amman, Jordan
- XML Reader windows service & Flash 8 movie that reads News, weather and Prays Times from Webserver and distributed to display LCDs
- Building a Windows CE 6.0 image using Platform Builder 6 to use it to operate a 800 VESA Compact pc in many banks branches for queuing purposes.
- Packaging several installation files into one universal self-installer with customized GUI.
- Developing a file transfer/Chat Application using .NET Remoting & Windows Sockets to communicate between VESA Compact PCs and Administration PCs.
- Full customization and enhancements for an open source survey application built with PHP, Javascript, CSS and MS SQL Server 2005 deployed on a stand KIOSK for customers feedback.

OCT 2007-JUN 2008 **Graphic Designer Intern**, Jordan University of Science and Technology (JUST) Students Affairs, Irbid, Jordan

SKILLS

CORE SKILLS
- Broad development knowledge for back-end, front-end and database, including C#, ASP.Net, MVC, WebAPI, SQL server and oracle databases, HTML5, CSS3, Bootstrap, Responsive Web, JavaScript and jQuery
- Industry aware and technically up to speed with current software development tools, including Visual Studio 2015, and MS TFS
- Strong analytical skills and level headed problem solver with very high communication skills like team management, persuasion and arguing, critical Thinking, Interpersonal skills, Analytical and Team Working
- Strong and solid knowledge in both object orientated (OOP) and service oriented architecture (SOA) concepts and innovating / enhancing algorithms
- Expert in design concepts for both web applications and print materials using Adobe products

COMMUNICATION SKILLS
- Team Management, Persuasion and Arguing, Problem Solving, Critical Thinking, Interpersonal skills, Analytical and puzzle solver
- Motivated, Enthusiastic and a Team Worker

TECHNICAL SKILLS

WEB DEVELOPMENT	Asp.net MVC5, Asp.net WebForms, Asp.net WebPages, Razor views, HTML5, WCF, SignalR, WebAPI, PHP,
WEB DESIGN	UX/UI, CSS 3.0, Bootstrap 3.x, jQuery UI, Responsive Web Design, LESS, SASS, CSS Animation, animate.css, Web charts, FontAwesome, Fontello, HTMLkickstart, ,
PROGRAMMING	C#.Net, VB.Net, Data structures, C++, C, Visual Basic, Crystal Reports, Action Script, Python, Android, SimScript,
SCRIPTING	JavaScript, jQuery, AngularJs, knockout, AJAX, DOM, XML, JSON, handlebars, Typescript, TypeAhead, Hogan, Zepto, holder.js, slimscroll.js, knockout, AngularJs, Jade,
DATABASE	DDL&DML Scripts, MSSQL Server, SQL Stored Procedures, ADO.ApacheNET, Entity Framework 6, Linq, Linq to SQL, MySQL, Oracle 10g, MS Access, PL/SQL, Data mining,
GRAPHIC DESIGN & ANIMATIONS	Adobe Photoshop CC, Adobe Illustrator CC, Adobe InDesign CC, Branding, Print Design, Adobe Flash CC, Inkscape, GDI+,
SOFTWARE ENGINEERING	Project Planning, n-tier programming, Prototyping, Technical Writing, Requirements Analysis, Waterfall, Agile, Iterative,
SOFTWARE TOOLS AND PACKAGES	Visual Studio 2013, SQL Server Management Studio 2012, Adobe Suite CC, Microsoft Team Foundation Server TFS, Toad for Oracle, Sketchup, Matlab 7, MS Office Suite, Quartus II, Synapticad, Pspice, AutoCAD, SimScript Simulation Studio, Microsoft Visual C++ 6.0, Rational Rose, MS Visio, MS FrontPage, MS Platform Builder for Windows CE 6.0, LimeSurvey, Visual Source Safe, Powershell, Wordpress themes, Fiddler, XAMPP,
WEB SERVERS	IIS, Apache,
ASSEMBLY LANGUAGE	MIPS R2000, MOTROLA 68000,
HARDWARE DESCRIPTION	Verilog HDL,
OPERATING SYSTEMS	MS Windows (10, Server 2012, Phone, Seven, Vista, XP, 9x, CEx), MS-DOS, Linux,
VIRTUALIZATION	IBM Cloud, VMware, Hyper-V, Docker,
SCIENCES	Numerical analysis, Calculus, Computational intelligence, Physics, Chemistry,
NETWORKING	configuring and operating simple-routed LAN, CISCO routers configuration, Wireshark, Packet Tracer,
COMPUTER MAINTENANCE	Excellent Experience in PCs Hardware/Software maintenance,

PUBLICATIONS

2020 **Demand Response for Residential Uses: A Data Analytics Approach**, Jaradat, Abdelkareem and Lutfiyya, Hanan and Haque, Anwar, in 2020 IEEE 6th World Forum on Internet of Things (WF-IoT), Luisiana, USA

2022 **Smart Home Energy Visualizer: A Fusion of Data Analytics and Information Visualization**, Jaradat, Abdelkareem and Lutfiyya, Hanan and Haque, Anwar, in IEEE Canadian Journal of Electrical and Computer Engineering, ,

TALKS

JUNE 2021 **TOWARDS SMART DEMAND RESPONSE: A COMPREHENSIVE SMART HOME ENERGY MANAGEMENT SYSTEM**, WING mothly meeting

APRIL 2021 **Smart Home Energy Visualizer**, UWORCS21

JUNE 2020 **Demand Response for Residential Uses: A Data Analytics Approach**, WF-IoT20

AUG 2019 **CLASSIFYING APPLIANCES OPERATION MODES USING DYNAMIC TIME WARPING (DTW) AND K NEAREST NEIGHBORS (KNN)**, Master thesis defence

AUG 2019	**A GLIMPSE ON CONSUMER BEHAVIOR CHANGE IN ELECTRIC POWER CONSUMPTION USING SOCIALIZED GAMIFICATION PLATFORM**, Reading course
APRIL 2019	**Applying Demand Response (DR) on Residential Houses Using XCorrelation And Dynamic Time Warping (DTW) On Disaggregated Appliance Power Consumption Data**, UWORCS 2019
NOV 28, 2018	**Enhancing demand response by domestic electricity consumption by giving tips based on daily time series power consumption**, Industry Presentation for Tillsonburg Hydro Inc.

CERTIFICATES

DEC 2019	**IELTS General**, British Council, Total: 8.0, Reading:8.5 Writing:7.0 Listening:8.0 Speaking:7.5,
SEP 2016	**TOEFL IBT**, ETS, Total: 101, Reading:25 Writing:25 Listening:28 Speaking:23,
2015	**Microsoft Certified Professional**, Microsoft, ,
2015	**Microsoft Certified Solution Developer: Web Applications.**, Microsoft, ,
2015	**Microsoft Specialist: Programming in HTML5 with JavaScript and CSS3 Specialist.**, Microsoft, ,
2010	**TRIZ Practitioner: TRIZ and xTRIZ-based Systematic Innovation for Technology and Engineering basic level**, ICG training and consulting, ,

LANGUAGES

English: excellent command

Arabic: native Speaker

VOLUNTEER

2018-2020	**Coordinator and Graphic Designer**: Western University Food Bank

CONFERENCES

APRIL 2021	**Presenter** at UWORCS 2021, London, ON, Canada
JUNE 2020	**Presenter** at IEEE WF-IoT2021, Luisiana, USA
APRIL 2019	**Attendant** at UWORCS 2019, London, ON, Canada
2009	**Participant** at the Technology Parade conference in Princess Sumaya University, Amman, Jordan
2007	**Participant** at the 5th Investing in Technology Forum in Jordan under the Patronage of his majesty King Abdullah II bin Al Hussein., Amman, Jordan
2002	at Jordanian conference for High Schools mathematics computing, Zarqa, Jordan

TRAINEE

2014	**Configuring and Administering Hyper-V in Windows Server 2012**, , Amman, Jordan
2014	**Administering Microsoft SQL Server 2012 Databases**, , Amman, Jordan
2014	**Certified Software Tester – ISTQB Foundation Level.**, , Amman, Jordan
2014	**Microsoft System Center VMM**, , Amman, Jordan
2012	**Windows Phone 7 Development**, , Amman, Jordan
2011	**Wimba Create for Moodle**, , Amman, Jordan
2011	**Echo360 lecture capture solutions**, , Amman, Jordan
2011	**IBM CloudBurst over VMware**, , Amman, Jordan

2011 **Video/Audio Editing for eLearning purposes**, , Amman, Jordan

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2014 **web development using Asp.net/C#, HTML5, CSS3, jQuery and database using SQL server 2012 to build fully functional wiki-like content management system.**, , Irbid, Jordan

2012 **using Adobe Photoshop cs5 featuring dealing with layers, web mockups design, masking and photo manipulation**, , Irbid, Jordan

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2022 **IEEE Transactions on Industrial Informatics**, , . Reviewing:

2022 **IEEE Canadian Journal for Electrical and Computer Engineering CJECE** , , . Reviewing:

2021 **IEEE Internet of Things Journal**, , . Reviewing:

2020 **CNSM2020**, Izmir, Turkey. Reviewing: Kucęba, R., & Chmielarz, G. (2020, November). Experimental Model of the System for Intelligent Power Plant Management. In 2020 16th International Conference on Network and Service Management (CNSM) (pp. 1-5). IEEE.

2020 **WiMOB2020**, Zoom, Virtual. Reviewing: Idrees, A. K., Abou Jaoude, C., & Al-Qurabat, A. K. M. (2020, October). Data reduction and cleaning approach for energy-saving in wireless sensors networks of IoT. In 2020 16th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)(50308) (pp. 1-6). IEEE.

2020 **Vehicular Communications Journal**, , . Reviewing: Jeong, H. H., Shen, Y. C., Jeong, J. P., & Oh, T. T. (2021). A Comprehensive Survey on Vehicular Networking for Safe and Efficient Driving in Smart Transportation: A Focus on Systems, Protocols, and Applications. Vehicular Communications, 100349.

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- IEEE Canada
- Western Alumni
- Public Service Alliance of Canada (PSAC_
- Jordan Engineers Association (JEA)
- Saudi Council for Engineers (SCE)