

Resume

Personal Information:

Name: Belal Mohammad Zaqaibeh
Nationality: Jordanian
Marital Status: Married
Date of Birth: 6th August 1975
Address: Al-Hoson, Irbid, Jordan
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Education:

PhD.: 2006, Computer Science, majoring in Database Systems and field of cognitive in Software Engineering. Thesis title: "*Development of an Assertion Model of Integrity Constraints in Object-Oriented Databases*". Department of Computer Science/ Faculty of Science and Information Technology, University Putra Malaysia/ Malaysia.

MSc.: 2001, Computer Science in Distributed Computing, with **very good** grade. Project title: "*Using the Computer to Aid Instruction*". Department of Computer Science/ Faculty of Science and IT, University Putra Malaysia/ Malaysia.

BSc.: 1998, Computer Science, **My bachelor standing was the First honor degree** with **Excellent** grade (84.8%). Project title: "*Using the Computer to Aid Typing*", Department of Computer Science, Faculty of Art and Science, Irbid National University/ Jordan.

Academic Ranks:

Associate Professor: 2013 from Jadara University/ Jordan.

Assistant Professor: 2006, from Zarqa University/ Jordan.

Experiences – Industry:

- System Coordinator and Data Analyst with the Adaptive TechSoft (ATS), creating a digital campus at Jadara University by automating the university processes and services, October 2019 – September 2021.
- Liaison officer with the ATS to manage all electronic systems (Registration System, ERP, HR, and Mobile System) at Jadara University, September 2018 – Present.
- I have worked as consultant in analyzing, designing, and implementing the Heritage System using Object-Oriented Database (Spiral Delphi), May 2003 – July 2006, with the cooperation project between Multimedia University and three industrial companies/ Malaysia.
- I have worked as a network administrator and a web system designer, September 2000 – May 2002, I-MAF/ Malaysia.
- I was the General Manager and the Data Analytics: September 1998 – May 2000, Makkah Cultural Center for Computer/ Jordan.
- I have worked as a programmer (using Oracle) and a system analysis, March 1997 – May 2000, Channel 3, Amman/ Jordan.

Experiences - Teaching (Full-Time):

- Associate Professor: September 2018 – Present, Computer Science Department, Faculty of Science and Information Technology, Jadara University/ Jordan.
- Associate Professor: September 2015 – September 2018, Computer Science Department, Arts and Science College, Applied Science University/ Bahrain.
- Associate Professor: January 2013 – September 2015, Computer Science Department, Faculty of Science and Information Technology, I taught in the master program and supervised six students, Jadara University/ Jordan.
- Assistant Professor: September 2008 – Dec 2012, Computer Science Department, Faculty of Science and Information Technology, Jadara University/ Jordan.
- Assistant Professor: September 2006 – September 2008, Computer Science Department, Zarqa University/ Jordan.
- Lecturer: Aug 2001 – September 2006, Computer Science Department, Multimedia University/ Malaysia.

Experiences – Teaching (Part-Time):

- Associate Professor: September 2013 – June 2015, I taught master students (MSc) at the Department of Computer Science, Jordan University of Science and Technology (JUST).
- Assistant Professor: June 2012 – Aug 2012, Department of Computer Science, JUST.
- Assistant Professor: February 2008 – June 2008, Software Engineering Department, Hashemite University.
- Lecturer: January 2005 – May 2006, School of Computer Science, University of Nottingham.
- Lecturer: March 2001 – July 2001, Twintech SDN BHD.

Experiences - Administration:

- Assistant to the President for International Relations and Projects, and the Director of Development and Quality Assurance Center, October. 2019 – Present, Jadara University/ Jordan.

- The General Coordinator of Quality and the Director of e-Learning Center: September 2018 – Present, Jadara University/ Jordan.
- Dean of the Arts and Science College: September 2015 – September 2018, Applied Science University/ Bahrain.
- Dean of the Faculty of Science and Information Technology: October 2013 – September 2015, Jadara University/ Jordan.
- Director of the Computer Center: September 2008 – September 2015, Jadara University/ Jordan. I have established the Datacenter and made the installation and configuration of its Core Switch, Servers, Storage (SAN), and Firewall.

Experiences – Quality Assurance and Accreditation:

Note: I have gotten “Full Confidence” for all academic programs (I was the Dean) in my college from the Directorate of Higher Education Reviews (DHER), August 2018.

- Supervising the mapping committee for the courses of general studies department into the National Qualification Framework (NQF), September 2017 – January 2018, Applied Science University (ASU)/ Bahrain.
- Preparing the progress report of the Computer Science program, September 2017 – January 2018, ASU/ Bahrain.
- Mapping the Program Intending Learning Outcomes with Course Intended Learning Outcomes for computer science program and supervising the mapping graphic design and interior design programs in the college, Sep – Nov 2017, ASU/ Bahrain.
- Rewriting the Aims, Graduate Attributes, and Program Intending Learning Outcomes for Computer Science program. Furthermore, writing the Course Intended Learning Outcomes for several courses, July – September 2017, ASU/ Bahrain.
- Handling the processes of reviewing the college programs by the annual reviewers in July 2017, and the periodic reviewers in Jan – February 2018, ASU/ Bahrain.
- Conducted the Benchmarking processes with Philadelphia University and Al-Ahliyya Amman University, June 2017, ASU/ Bahrain.
- Sharing in the updates of most required files and forms like: internal and external moderation forms, post-moderation, and course portfolio, September 2015 – July 2016, Applied Science University/ Bahrain.
- Reviewing and modifying the Self Evaluating Report (SER) for Computer Science program and reviewing other programs’ SERs in the college, September 2015 – Nov 2015, Applied Science University / Bahrain.
- Working on the accreditation file, 2009 – 2015, at Jadara University/ Jordan.

Publications:

- [1] Mohammad Al-Batah, Belal Zaqabeh, Saleh Alomari, and Mowafaq Alzboon, "Gene Microarray Cancer Classification using Correlation Based Feature Selection Algorithm and Rules Classifiers", International Journal of Online and Biomedical Engineering (iJOE), Vol. 15, No. 8, 2019.
- [2] Saleh Alomari, Mowafaq Alzboon, Belal Zaqabeh, and Mohammad Al-Batah, "An Effective Self-Adaptive Policy for Optimal Video Quality over Heterogeneous Mobile Devices", Applied Mathematics & Information Sciences, Vol. 13, No. 3, 2019, pp: 489-505.

- [3] Belal Zaqaibeh, Islam Obaidat, and W. Hussien, "Big Data Analysis Techniques using Multi-GPUs MapReduce Implementations", Proceedings of the International Computer Sciences and Informatics Conference (ICSIC 2016), Amman, Jordan, 12-13 January, 2016, pp: 359-366.
- [4] Jafar Albadarneh, Bashar Talafha, Mahmoud Al-Ayyoub, Belal Zaqaibeh, Mohammad Al-Smadi, Yaser Jararweh, and Elhadj Benkhelifa, "Using Big Data Analytics for Authorship Authentication of Arabic Tweets", IEEE/ACM 8th International Conference on Utility and Cloud Computing (UCC), Limassol, 7-10 December 2015, pp: 448-452.
- [5] Rami Malkawi, Mustafa Bani Khalaf, Belal Zaqaibeh, Saleh Alomari, "An Enhanced First Segment Caching Scheme (EFSCS) for Mobile Ad-Hoc Network Based on Video on Demand System", International Journal of Academic Research, Vol. 7, No. 3, May 2015.
- [6] Belal Zaqaibeh, Maged Fakirah, Mohammed Al-Andoli, and Ala Marashdh, "Survey on MapReduce Applications", Proceedings of International Journal of Arts & Sciences (IJAS) conference for academic. Harvard University, Boston, Massachusetts, USA 26-30 May 2014, and have been selected to be published in the Academic Journal of Science (AJS), Volume 4, No 1. 2015
- [7] M. Al-Betar, M. Alawan, A. Khader, M. Awadallah, and Belal Zaqaibeh, "Cellular Harmony Search for Optimization Problems", Journal of Applied Mathematics, Vol. 2013, Article ID 139464, 2013.
- [8] Belal Zaqaibeh, Mohammad Al-Betar, and Firas Al-Balas, "Is Computer Science an Academic Discipline?". Proceeding of the International Symposium on Education, Psychology and Social Sciences (ISEPSS), Kuala Lumpur, Malaysia, 27-29 September 2013, pp: 196-202.
- [9] Belal Zaqaibeh, "An Efficient Arabic Script Library for BGI", International Journal of Academic Research (IJAR), March 2012, Vol. 4. No. 2. pp: 142-147.
- [10] Belal Zaqaibeh, F. Albalas, A. W. Awajan, "Designing a New Assertion Constraints Model for Mobile Databases", International Journal of Interactive Mobile Technologies (iJIM), January, 2012, Vol. 6, No. 2, pp: 39-46.
- [11] Essam Al-Daoud, Belal Zaqaibeh, and Feras Al-Hanandeh, "3D DNA Nanostructures for Vector Multiplication", American Journal of Scientific Research (AJSR), January 2009, Vol. 1, pp: 5-11.
- [12] Belal Zaqaibeh, Feras Al-Hanandeh, and Essam Al-Daoud, "Development of a Run-Time Model in OODB". Proceeding of the International Conference on Software Engineering and Computer Systems (ICSECS), Kuantan, Malaysia, 19-21 October 2009, pp: 135-141.
- [13] Essam Al Daoud, Iqbal Jebril, and Belal Zaqaibeh, "Computer Virus Strategies and Detection Methods", International Journal of Open Problems in Computer Science and Mathematics (IJOPCM), September 2008, Vol. 1, No. 2.
- [14] Belal Zaqaibeh and Essam Al-Daoud, "The Constraints of Object-Oriented Databases", International Journal of Open Problems in Computer Science and Mathematics (IJOPCM), June 2008, Vol. 1, No. 1.
- [15] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "Enforcing User-Defined Constraints during the Run-Time in OODB", the International Arab Journal of Information Technology (IAJIT), October 2008, Vol. 5, No. 4.

- [16] Hamidah Ibrahim, Belal Zaqaibeh, Ali Mamat, and Md. Nasir Sulaiman, "Enforcing and Maintaining Constraints Base during the Compile-Time", the World Scientific and Engineering Academy and Society (WSEAS) Transactions on Computers, February 2007, Vol. 6, No. 2, pp: 373-379.
- [17] Belal Zaqaibeh and Hamidah Ibrahim, "An Object Assertion Language for Integrity Constraints in OODBs", Proceeding of the 2nd International Conference on Informatics, Kuala Lumpur, Malaysia, 27-28 November 2007, Vol. 2, pp: 29-36.
- [18] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, Md. Nasir Sulaiman, and Toufik Taibi, "An Assertion Model for Integrating User-Defined Constraints in OODBMS", the World Scientific and Engineering Academy and Society (WSEAS) Transactions on Computers, March 2005, Vol. 4, No. 3, pp: 327-332.
- [19] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "Enforcing Integrity for Redundant and Contradiction Constraints in OODBs". Proceeding of the 4th International Conference on Information Technology in Asia (CITA), Kuching, Sarawak, Malaysia, 2005, pp: 256-261.
- [20] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "An Assertion Model for Controlling Integrity Constraints in an Object-Oriented Database", Proceedings of the Joint International Conference on Informatics and RWICT, 2004, Vol. 1 No 1, pp: 413-421.
- [21] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "Ensuring and Detecting Constraint Violations in an Object-Oriented Database", Proceedings of Information Technology Colloquium INTEC 2004.
- [22] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat and Md. Nasir, "An Enhanced Object-Oriented Database Model for Ensuring the Integrity of User-Defined Constraints", Suranaree Journal of Science and Technology (SJST), 2003, Vol. 10, No. 4, pp: 359-366.
- [23] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "An Efficient OODB Model for Ensuring the Integrity of User-defined Constraints", Proceedings of 6th IFIP International Conference on Integrity and Internal Control in Information Systems (IICIS), Lausanne, Switzerland, 13-14 November 2003, pp: 195-208.
- [24] Belal Zaqaibeh, Hamidah Ibrahim, Ali Mamat, and Md. Nasir Sulaiman, "Restructuring Object-Oriented Database Model to Ease Checking the Integrity Constraints", Proceedings of IEEE Student Conference on Research and Development (SCoReD), Putrajaya, Malaysia 25-26 August 2003.
- [25] Belal Zaqaibeh, Majdi Al-Qdah, Hamidah Ibrahim, and Malik Taysir, "A Special Library for Supporting Jawi Fonts in BGI Mode", Proceedings of IEEE Student Conference on Research and Development (SCoReD), Putrajaya, Malaysia 25-26 August 2003.

Submitted:

- [26] Belal Zaqaibeh, "How to Achieve the Academic Programs' Intended Learning Outcomes", 2019.
- [27] Belal Zaqaibeh, "A Smart Optimization Algorithm for Handling Exams Timetabling System", on January 2019.

Professional Memberships:

1. The Vice-Chair of IEEE Bahrain Section ExCom, February 2018 – February 2019, Bahrain.
2. A member in the British Computer Society (BSC)/ UK, 2017 - 2018, Applied Science University (ASU)/ Bahrain.
3. A member in the confirmation committee of the mapping programs into National Qualification Framework (NQF), September 2017 – August 2018, ASU/ Bahrain.
4. The liaison officer between the Bahraini Universities and the Colleges of Computing and Information Society, from 2015 – Present, Bahrain.
5. A member in the following committees: Extended Senior Management Group, ASU Programs Mapping Committee, VP Academic Affairs and Development Office, Examination Team, Communication Group, Urgent Matters, and Finance Budgeting Group, from 2015 – present, ASU/ Bahrain.
6. A steering committee member in the International Computer Sciences and Informatics Conference (ICSIC 2016), 12-13 January 2016, Amman Arab University, Jordan.
7. The chairperson of the committee of the annual report and achievements, October 2014 – September 2015, Jadara University/ Jordan.
8. A steering committee member in the 3rd International Women and Discourse Literary and Cultural Media Conference (IWDLCMC 2014), 18-20 November 2014, Jadara University, Jordan
9. The chairperson of the committee of marketing and agreements, March 2014 – September 2015, Jadara University/ Jordan.
10. A member in the committee of writing the theses guide, March 2014 – September 2015, Jadara University/ Jordan.
11. A member in the committee of violence reduction among university students, January 2014 – September 2015, Jadara University/ Jordan.
12. The liaison officer between Jadara University and the Higher Council for Science and Technology, 2013 – September 2015. www.eu-jordannet.org
13. A member of the University Council, October 2013 – September 2015, Jadara University/ Jordan.
14. The head of the examination committee for the qualitative examination, January 2013 – September 2015 at Jadara University, Organized by the Higher Ministry of Education and Scientific Research, Jordan.
15. A member in the Committee of the Examination Level, 1st October 2011 – September 2015, Jadara University/ Jordan.
16. The faculty representative in the University Council, for the academic year 2008/2009, Jadara University/ Jordan.
17. The liaison officer between Jadara University and the Higher Council for Science and Technology, 2008 - 2015. www.srtd-eujo.org
18. A Founding Member for the International Center for Scientific Research and Studies (ICSRS), 2007 – Present, <http://www.i-csrs.org>
19. An active member (Editorial Board) in the International Journal of Open Problems in Computer Science and Mathematics, 2008 – Present. www.ijopcm.org

20. An active member in The International Arab Journal of Information Technology, 2007 – Present. www.iajit.org
21. A member in the Center for Multimedia Computing (CMC), 2001 – 2006, Multimedia University/ Malaysia. www.mmu.edu.my
22. A member in the Industrial Training Committee, 2003 – 2006, Multimedia University/ Malaysia. www.mmu.edu.my

Handled Workshops:

1. How to accelerating ICT skills, during the workshop of “Accelerating ICT Skills in the Kingdom of Bahrain” which is organized by the office of the secretary general of the Higher Education Council (HEC) on 24th February 2016.
2. Monitoring and Evaluation Project, for researchers of Jadara University/ Jordan, 13 July 2011.
3. How to Work with International Partners, for researchers of Jadara University/ Jordan, 3 July 2011.
4. Team Management, for researchers of Jadara University/ Jordan, 19 June 2011.
5. Execution and Problems Handling, for researchers of Jadara University/ Jordan, 23 May 2011.
6. Project Coordination, for researchers of Jadara University/ Jordan, 8 May 2011.
7. Guidance for Managing a Research Grant, for researchers of Jadara University/ Jordan, 28 April 2011.
8. Proposal Evaluation: Scientific Research Fund, for researchers of Jadara University/ Jordan, 7 April 2011.
9. Proposal Evaluation: International Agencies, for researchers of Jadara University/ Jordan, 4 April 2011.
10. Impact Assessment and Innovation in Preparing Proposals and Research, for researchers of Jadara University/ Jordan, 1st December 2010.
11. Hints for Writing a Funding Proposal & Proposal Evaluation, for researchers of Jadara University/ Jordan, 29 November 2010.
12. E-Learning Systems, within the Project of Building of Lecturers Capabilities for lecturers of Jadara University/ Jordan, 5-7 October 2010.
13. How to use E-Mails and File Conversions for Secretaries of Jadara University/ Jordan, 2 August 2010.
14. How to use E-Mails (using Outlook and Internet Browsers) in Communications among Departments and Faculties, for managers of Jadara University/ Jordan, 1 August 2010.
15. Electronic Documentation and Indexing of Office Work, for Secretaries of Jadara University/ Jordan, 29 September 2010.

Community Services:

1. Participate in the implementation of SRTD project, 2010 – 2011, at the Higher Council for Science and Technology / Jordan.
2. An active member in the Sports and Cultural Club of Al-Huson, 2009 – 2015/ Jordan.
3. Honorary membership in the Al-Barakh Association Charity, 2008 – 2015/ Jordan.

4. Participate in the preparation of management system of electronic scientific refereed journals, 28 February 2008, Organized by the Union of Arab Universities, at Zarqa University/ Jordan.

Patents and achievements:

1. The Assessment System for lecturers' achievements, 2011/ Jordan.
2. E-Learning System, 2010/ Jordan.
3. The E-Exam for Jadara University, 2008/ Jordan.
4. I have gotten the BMZ software patent for computer aided typing from the Ministry of Industry and Trade, 1999, Jordan.

Awards Received:

1. Accreditation to be the Quality Evaluator for Higher Education, from the Accreditation and Quality Assurance Commission for Higher Education Institutions, 18 September 2019, Jordan.
2. I have gotten the Silver Medal for the research paper which is entitled "Enforcing and Maintaining Integrity Constraints in Object-Oriented Databases" in the Exhibition of Research and Innovation, UPM, 10-11 March 2005/ Malaysia.
3. I have received the **First Honor Degree** for my bachelor standing.

Training:

1. Higher Education Quality Evaluator (accredited by the Authority), September 2019, from the Accreditation and Quality Assurance Commission for Higher Education Institutions, Jordan.
2. Statistical Analysis using SPSS, 30 March 2019, Jadara University/ Jordan.
3. The Mechanism of Research, Publication, and Impact Factors, 5 January 2019, Jadara University/ Jordan.
4. Modern Teaching Strategies, 24 November 2018, Jadara University/ Jordan.
5. Program Mapping to the NQF, from 25 to 27 February 2016, Ta'seel/ Bahrain.
6. Improving Student Engagement, Retention and Achievement, on 3 December 2015, at the Academic Staff Development Unit in ASU/ Bahrain.
7. Excellence, Quality Assurance and Student Engagement, on 2 December 2015, at the Academic Staff Development Unit in ASU/ Bahrain
8. Research Development at ASU, on 19 November 2015, at the Academic Staff Development Unit in ASU/ Bahrain.
9. The Body Language and Methods of Presentation, from 18 to 23 November 2015, Applied Science Institute for Training, ASU/ Bahrain.
10. Moodle Course Building for Teacher, from 16 to 21 September 2015, at the Academic Staff Development Unit in ASU/ Bahrain.
11. E-Library Linked with Arado Portal and Gale DB, on 14 September 2015, at the Academic Staff Development Unit in ASU/ Bahrain.
12. 10174: Configuration and Administrating Microsoft SharePoint 2010, from 27 November to 13 December 2011, at Arab Academy for Microsoft Technology/ Jordan.

13. 6420: Fundamental of Windows Server 2008 Network and Applications Infrastructure, from 25 July to 4 August 2010, at the Arab Academy for Microsoft Technologies/ Jordan.
14. Windows 7 Deployment, from 16 to 17 February 2010, at Microsoft/ Jordan.
15. FP7 Contract Negotiation and Finance, from 6 to 7 of December 2009, organized by support to research and technological development and innovation initiatives and strategies in Jordan project, at the Higher Council for Science and Technology/ Jordan.
16. Training workshops on How to Write Proposals for Research Projects and Writing a Research Project, Supported by the Scientific Research Support Fund, from 10 October to 12 November 2009, at the Higher Council for Science and Technology/ Jordan.
17. Initial Liaison Officer Training, from 22 to 23 of April 2009, at the Higher Council for Science and Technology/ Jordan.
18. Advanced Networking with Open Source Systems, from 20 to 24 of March 2006, at Multimedia University/ Malaysia.
19. Mastering Object-Oriented Design with UML, on 23 of August 2003, at Multimedia University/ Malaysia.

Courses: I have taught the following courses at the underlined institutes:

Applied Science University/ Bahrain

Software Engineering,
Algorithms Analysis and Design,
System Analysis and Design,
Compilers,
Database Systems,
Internship,
Object-Oriented Programming,
Management Information System

Jadara University/ Jordan

Web Programming,
Human-Computer Interaction (HCI),
Software Engineering,
Strategies for Designing and Managing Databases (for master students),
Database,
Graduation Project,
Industrial Training,
Special Topics in Computer (ORACLE),
Advanced Programming (Java),
Compilers,
Algorithms,
Programming I (C++),
Computer Skills for Science Students.

Jordan University of Science and Technology (JUST)/ Jordan

Advanced Database Systems (for master students)
Selected Programming Languages

Hashemite University/ Jordan

Human-Computer Interaction (HCI)

At Zarqa University/ Jordan

Software Engineering,
Advance Database,
Database Languages and Tools,
Design and Analysis of Algorithms,
Object-Oriented Programming,
Computer Skills I & II,
Database Systems.

At Multimedia University/ Malaysia:

Software Engineering,
Computer Programming (I and II),
Programming Language Concepts,
Database Systems,
Compiler Design,
Theory of Computing,
Multimedia Programming.

At The University of Nottingham/ Malaysia:

Compilers
Databases (for master students).

At Twintech SDN BHD/ Malaysia:

Software Engineering,
System Analysis and Design.

At Irbid National University/ Jordan:

Novell, Unix, Hardware Maintenance, C++, Prolog, and FoxPro.

At Yarmouk University/ Jordan:

Oracle Developer 2000 (PL/SQL, Form A, Form B, and Reports).

At Makkah Cultural Center for Computer/ Jordan:

Oracle Developer 2000 (PL/SQL, Forms, Reports, and Graphics), VB, Java, Delphi,
Microsoft Office (Word, Excel, Power Point, FrontPage, and Access), C++, Pascal,
QBasic, and FORTRAN.

Research Interests:

Data Analytic, Cloud Computing, Big Data, Timetabling, Integrity Constraints, Object-Oriented Databases, and Mobile Databases.

References:

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|----------------------|---------------|-------------------------|--------------|
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