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Faculty of Computing  
Universiti Teknologi Malaysia (UTM)  
Johor Bahru, Malaysia

## Israr Ghani, Ph.D.

### PROFESSIONAL PROFILE

- **Industrial Experience as a Software Developer & Lead Software Engineer** 9 Years
- **Peer-reviewed Scholarly Work:** 14 research articles
- **Presenter:** 4 International Conferences on Software Engineering
- **Accumulative Impact Factor:** 3.4

### EDUCATION

- **Ph. D. in Computer Science** June 2024  
Univeriti Teknologi Malaysia, **Malaysia**
- **Master of Computer Science**, UAAR, **Pakistan** Oct 2009
- **Bachelor of Arts**, Bahaudin Zakriya University Multan, **Pakistan** July 2004
- **F.A**, Gov't Degree College Jampur, **Pakistan** Dec 2002
- **Matric**, Gov't High School Jampur, **Pakistan** Oct 1999

### INDUSTRY EXPERIENCE (9 years Software Engineer full time)

- Visiting Researcher:** UTM University Malaysia Feb 2024-Jul 2024
- Published a research paper in Q2 journal (IEEE Access)
  - Initiated collaboration between UTM university & VMI (USA)
- Software Engineer:** CareCloud: Pakistan Oct 2009-Apr 2012
- Developed Electronic Health Care System (EHR)
  - Tools used: ASP.NET, Java Script and SQL Management Studio (Frontend and Backend)
- Lead Software Engineer:** CareCloud Pakistan: Nov 2012-Nov 2014
- Developed Electronic Data Interchange (EDI)
  - Tools used: ASP.NET, Java Script and SQL Management Studio
- Lead System Analyst Engineer:** CareCloud: Pakistan DEC 2015-Aug 2018
- Developed and Maintain Electronic Health Record System (EHR)

### COURSES STUDIED DURING Ph.D. RESEARCH (SOFTWARE ENGINEERING & COMPUTER SCIENCE)

- Software Engineering
- Web Services (REST, SOAP, RPC, XML)
- Software Quality Assurance and testing
- Web Applications (Implementing / SQL Management Studio)
- Problem Solving and Structured Programming using ASP.NET, C#
- Web Application Development / Client Server (front-end and back-end)
- Object Oriented Programming using, C++, ASP.NET, C#, OOP
- Data Structures
- Databases (SQL Management Studio)
- System Analysis and Design
- Fundamentals of Computer Science
- Software Architecture and Design
- Research Methodology

## COURSES I CAN TEACH

- Distributed Systems
- Advanced Database Systems
- Machine Learning
- Cloud Computing
- Software development (C++, OOP, HTML, JavaScript, jSon, Query, HTML5, JAVA, C#, ASP.NET)
- Computer Systems
- Data Structures
- Algorithms and Computation.
- Machine Learning.
- Research Methodology Advanced Algorithms
- Advanced Operating Systems
- Advanced Software Engineering

## TECHNICAL SKILLS

- **Programming Languages / Skills:** Java, C/C++, c#, JavaScript, ASP,NET, HTML5, XML, CSS, Bootstrap, JQuery Mobile, Databases SQL Management Studio
- **Coder versioning:** Git / Github, push / pull / merge, resolve conflicts, code management
- **Quality Assurance** User Story Writing, Test cases writing, Use cases, Software Testing skills, Test Cases Prioritization skills, Team Players' Performance Improvement

## ACHIEVEMENTS AS TEAM Lead, SOFTWARE

- Served as a Software Engineer to lead and monitor the whole Software Engineering Program within the organization and responsibility.
- Served as Senior Software Engineer for all web products in Software Engineering
- Managed all areas for Quality Assurance, Software Engineering,
- Managed all area program and quality level testing
- Assured consistency of course delivery through regular communications with all departments, implementing of projects assessment procedures
- Supervised and assisted the Software testing teams with testing and development process.
- Interviewed and guided underperforming developers and testers
- Published 13 research papers in Quality assurance, software testing

## CONTINUING RESEARCH / SCHOLARLY DEVELOPMENT

- |                          |             |
|--------------------------|-------------|
| • Grants                 | : \$8,000   |
| • Research project       | : Two (2)   |
| • Scholarly Publications | : 14 Papers |

## CONFERENCES & PRESENTATIONS

- |   |          |
|---|----------|
| 1. <b>Presenter:</b> ICCST2019 Conference, <b>Malaysia.</b>   | Aug 2019 |
| 2. <b>Presenter:</b> ICONI Conference, <b>South Korea.</b>    | Dec 2022 |
| 3. <b>Presenter:</b> APIC-IST Conference, <b>South Korea.</b> | Jun 2022 |
| 4. <b>Presenter:</b> ICONI Conference, <b>South Korea.</b>    | Dec 2021 |
| 5. <b>Presenter:</b> APIC-IST Conference, <b>South Korea.</b> | Jun 2021 |

## PROFESSIONAL TRAININGS ATTENDED

- |  |      |
|--|------|
| • One (1) Day Hand-on training on python web development, UTM, Malaysia        | 2019 |
| • One (1) Day Data analysis workshop with python - hands-on workshop, Malaysia | 2020 |
| • ONE (1) Day Workshop: How to publish high impact publications, UTM, Malaysia | 2021 |
| • ONE (1) Day Workshop: Strategies becoming productive writer, UTM, Malaysia   | 2022 |

## SCHOLALRY WORK PUBLISHED IN ISI/SCOPUS/CONFERENCE

1. **Ghani I**, W. M. N. Wan-Kadir, A. F. Arbain and I. Ghani, "A Detection-Based Multi-Objective Test Case Selection Algorithm to Improve Time and Efficiency in Regression Testing," in IEEE Access, doi: 10.1109/ACCESS.2024.3435678.2024.
2. **Ghani I**, Wan-Kadir WM, Mustafa A, Babir MI. Microservice testing approaches: a systematic literature review. Int J Integr Eng. 2019; 11(8): 65-80.
3. **Ghani, I.**, Wan-Kadir, W. M., Mustafa, A. (2019). Web service testing techniques: A systematic literature review. International Journal of Advanced Computer Science and Applications 10(8). <http://dx.doi.org/10.14569/IJACSA.2019.0100858>.
4. **Ghani**, W. M. N. Wan-Kadir, A. F. Arbain, and N. Ibrahim, "Improved Test Case Selection Algorithm to Reduce Time in Regression Testing," Computers, Materials and Continua, vol. 72, no. 1, pp. 635–650, 2022, doi: 10.32604/cmc.2022.025027.
5. **Ghani I**, Wan-Kadir WM, Adila Firdaus Arbain. Reducing the Time of Regression Testing Using Model-Based Guided Test Case Selection, KSII the 16th Asia Pacific International Conference on Information Science and Technology (APIC-IST) 2021.
6. **Ghani I**, Wan-Kadir WM, Adila Firdaus Arbain. An Efficient Test Case Selection and Change Detection Framework for Regression Testing, KSII The 12th International Conference on Internet (ICONI) 2020.
7. **Ghani I**, Wan-Kadir WM, Ahmad Mustafa. Comparative Evaluation of State-of-the-art Approaches in Web Service Testing, International Journal of Recent Technology and Engineering (IJRTE), 2019.
8. **Ghani I**, Wan-Kadir WM, Adila Firdaus Arbain. A Hybrid Technique for Test Case Selection and Change Detection in Regression Testing, KSII The 13th International Conference on Internet (ICONI) 2021.
9. **Ghani I**, Wan-Kadir WM, Adila Firdaus Arbain. Redundancy Reduction Technique for Test Case Selection in Regression Testing, the 17th Asia Pacific, International Conference on Information Science and Technology (APIC-IST), 2022.
10. Muhammad Luqman Mohd-Shafie, Wan Mohd Nasir Wan Kadir, Muhammad Khatibsyarbini, Mohd Adham Isa, **Israr Ghani**, Husni Ruslai. An EFSM-Based Test Data Generation Approach in Model-Based Testing, CMC-COMPUTERS MATERIALS & CONTINUA, 2022.
11. Imran Ghani, Cadet Samuel Estes, Seung Ryul Jeong, **Israr Ghani**, Integration of Augmented Reality and Motion Capture in Interactive Telehealth and Physical Rehabilitation, The 17th Asia Pacific International Conference on Information Science and Technology (APIC-IST 2022), South Korea.
12. Imran Ghani, Sanwar Ali, Waleed Farag, Seung Ryul Jeong, Angelica Lim, **Israr Ghani**, Muhammad Irfan Khan, Humaira Ghani, CHALLENGE OF COLLABORATION IN DISTRIBUTED MULTI-CULTURAL AGILE IT TEAMS, ANIMH 2nd International Research Conference on Engineering and, Emerging Technologies (RCEET-Dec-2019), South Korea.

13. Muhammad Younas, Dayang Norhayati Abang Jawawi, **Israr Ghani**, Muhammad Irfan Khan, Imran Ghani, A Survey of Agile Development Methods and Tools in Cloud Environment, JSEIS, 2017.
14. Imran Ghani, Seung Ryul Jeong, M. Irfan Khan, **Israr Ghani**, Virtual Web Contents (VWC) for Personalized Presentation, International Journal of Advances in Computer Networks and its Security – IJCNS, ISSN No."ISSN:-2250-3757. 2012, Pg 121-127.

#### INTERNATIONAL JOURNALS REVIEWER/MEMBER OF TECHNICAL COMMITTEE

- **Reviewer:** Computers, Materials & Continua Journal (CMC)

#### GOOGLE SCHOLAR CITATIONS

- Google Scholar Citations: **60+**  
<https://scholar.google.com/citations?user=l4lRpbYAAAAJ&hl=en>