

# Curriculum Vitae

## HINA GULL

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### Personal Data

Nationality | Pakistani

Date of Birth | July 26, 1983

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### Academic Qualifications

Date	Academic Degree	Place of Issue	Address
2011	Masters in Sciences of Software Engineering (MPhil-18 years)	Pakistan	National University of Science & Technology, NUST Islamabad Pakistan
2006	Bachelors in Sciences of Computer Science	Pakistan	University of Azad Jammu and Kashmir Pakistan

### Professional Record

Job Rank	Place and Address of Work			Date
Lecturer	Department of Computer Information Systems	College of Computer Science & IT	University of Dammam (New Name: Imam Abdulrahman Alfaisal University) Saudi Arabia	2014-Till Now
Lecturer	Department of Computer Science	Qassim Private Colleges	Buraidah Al-Qassim Saudi Arabia	2011-2014
Research Assistant	Department of Computer Engineering	College of Electrical and Mechanical Engineering	National University of Science and Technology Pakistan	2009-2010

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## Patent

Patent for CPU scheduling methods based on relative time quantum for dual core environments

(<https://patents.google.com/patent/US11055137B2/en>)

## Publications

Publication Type	Author(s)	Title of Publication	Journal / Conf./ Publisher	Status	URL of the Online Publication
Journal Paper	Hina Gull, Saqib Saeed, Sardar Zafar Iqbal, Yasser A Bamarouf, Mohammed A Alqahtani, Dina A Alabbad, Madeeha Saqib, Saeed Hussein Al Qahtani, Albandary Alamer	An Empirical Study of Mobile Commerce and Customers Security Perception in Saudi Arabia	Electronics, MDPI (IF=2.397)	Published 2022	<a href="https://www.mdpi.com/2079-9292/11/3/293">https://www.mdpi.com/2079-9292/11/3/293</a>
Journal Paper	Sardar Zafar Iqbal, Hina Gull, Saqib Saeed, Madeeha Saqib, Mohammed Alqahtani, Yasser A. Bamarouf, Gomathi Krishna, and May Issa Aldossary	Relative Time Quantum-based Enhancements in Round Robin Scheduling	Computer Systems Science and Engineering (IF=1.486)	Published 2022	<a href="https://www.researchgate.net/profile/Hina-Gull-2/publication/355494875_Relative_Time_Quantum-based_Enhancements_in_Round_Robin_Scheduling/links/61763d94ef53e51e1e46f60/Relative-Time-Quantum-based-Enhancements-in-Round-Robin-Scheduling.pdf">https://www.researchgate.net/profile/Hina-Gull-2/publication/355494875_Relative_Time_Quantum-based_Enhancements_in_Round_Robin_Scheduling/links/61763d94ef53e51e1e46f60/Relative-Time-Quantum-based-Enhancements-in-Round-Robin-Scheduling.pdf</a>

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Journal Paper	Saqib Saeed, Abdullah M Almuhaideb, Yasser A Bamarouf, Dina A Alabaad, Hina Gull, Madeeha Saqib, Sardar Zafar Iqbal, Asiya Abdus Salam	Sustainable Program Assessment Practices: A Review of the ABET and NCAAA Computer Information Systems Accreditation Process	Environmental Research and Public Health, MDPI <b>(IF=3.390)</b>	Published 2021	<a href="https://www.mdpi.com/1660-4601/18/23/12691">https://www.mdpi.com/1660-4601/18/23/12691</a>
Book Chapter	Madeeha Saqib, Tooba Nasir, Hina Gull, Dina A Alabbad, Sardar Zafar Iqbal	Challenges and Implications of Digital Transformation in Higher Education: A Student Perspective from Pakistan and Saudi Arabia	Pandemic, Lockdown, and Digital Transformation Springer	Published 2021	<a href="https://link.springer.com/chapter/10.1007/978-3-030-86274-9_9">https://link.springer.com/chapter/10.1007/978-3-030-86274-9_9</a>
Conference Paper	Hina Gull, Dalal Aljohar, Reem Alutaibi, Dalia Alqahtani, Muna Alarfaj, Rahaf Alqahtan	Smart School Bus Tracking: Requirements and Design of an IoT based School Bus Tracking System	2021 5th International Conference on Trends in Electronics and Informatics (ICOEI)	Published 2021	<a href="https://ieeexplore.ieee.org/abstract/document/9452818">https://ieeexplore.ieee.org/abstract/document/9452818</a>
Journal Paper	Mohammed Saleh Ali Muthanna, Ping Wang, Min Wei, Abdelrahman Abuarqoub, Ahmad Alzu, Hina Gull.	Cognitive Control Models of Multiple Access IoT Networks using LoRa Technology	Q2 Journal: Cognitive Systems Research, Volume 65, Page 62-73 <b>(IF: 1.902)</b>	Published 2020	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1389041720300590">https://www.sciencedirect.com/science/article/abs/pii/S1389041720300590</a>
Conference Paper	Hina Gull, Gomathi Krishna, May Issa Aldossary, Sardar Zafar Iqbal	Severity Prediction of COVID-19 Patients using Machine Learning Classification Algorithms: A Case Study of Small City in Pakistan with minimal health facility	6 <sup>th</sup> IEEE International conference on communication and collaboration	Presented and Published 2020	<a href="https://ieeexplore.ieee.org/abstract/document/9344984">https://ieeexplore.ieee.org/abstract/document/9344984</a>

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Conference Paper	Hina Gull, Saqib Saeed, Sardar Zafar Iqbal, Madeeha Saqib, Albandary Alamer, Wiem Khalefa	COVID-19 lockdown and Mental Well Being: A Study of Pakistan and Saudi Arabia	36th IBIMA Conference Spain	Accepted and in press for Publication 2020	<a href="https://ibima.org/accepted-paper/covid-19-lockdown-and-mental-well-being-a-study-of-pakistan-and-saudi-arabia/">https://ibima.org/accepted-paper/covid-19-lockdown-and-mental-well-being-a-study-of-pakistan-and-saudi-arabia/</a>
Conference Paper	Hina Gull, Madeeha Saqib, Sardar Zafar Iqbal, Saqib Saeed	Improving Learning Experience of Students by Early Prediction of Student Performance using Machine Learning	2020 IEEE INTERNATIONAL CONFERENCE FOR INNOVATION IN TECHNOLOGY	Published 2020	<a href="https://ieeexplore.ieee.org/document/9298266">https://ieeexplore.ieee.org/document/9298266</a>
Conference Paper	Sardar Zafar Iqbal, Albandary Alamer, Hina Gull, Wiem Khalifa	Organizational Citizenship Behavior and Resonant Leadership, Analyzing Mediation Effect of Employee Resilience in Saudi Arabian Companies	The 2020 4th International Conference on Business and Information Management (ICBIM 2020)-ACM	Presented and Published 2020	<a href="https://dl.acm.org/doi/10.1145/3418653.3418654">https://dl.acm.org/doi/10.1145/3418653.3418654</a> .
Conference Paper	Sardar Zafar Iqbal, Dania Huzam, Norah Aleliwi, Asma Alabdulkareem, Shikah Alalyani, Shaikha Alfaris, Hina Gull	Smart Fair Guide: Requirements and Design of a Smart Fair Management System	2020 3rd International Conference on Computer Applications & Information Security (ICCAIS)	Published 2020	<a href="https://ieeexplore.ieee.org/document/9096722">https://ieeexplore.ieee.org/document/9096722</a>
Journal Paper	Mehwash Farooqui, Hina Gull, Mahira Ilyas, Sardar Zafar Iqbal, Mohammad Aftab Khan; Krishna, Gomathi; Ahmed, Mohammed Salih	Improving Mental Healthcare Using a Human Centered Internet of Things Model and Embedding Homomorphic Encryption Scheme for Cloud Security	Journal of Computational and Theoretical Nanoscience, Volume 16, Numbers 5-6, May 2019, pp. 1806-1812(7)	Published 2019	<a href="https://www.ingen-taconnect.com/content/asp/jctn/2019/00000016/f0020005/art00009">https://www.ingen-taconnect.com/content/asp/jctn/2019/00000016/f0020005/art00009</a>

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Journal Paper	Nesrine Mezhoudi, Hina Gull, Mohammed A. Alqahtani, Nahla El-Haggar, Moez Ayachi	Toward Safe and Usable Technologies for Autistic: Risks Identification and Mitigation Guidelines	Open Journal of Applied Sciences,	Published 2019	<a href="https://www.scirp.org/Journal/PaperInformation.aspx?PaperID=90241">https://www.scirp.org/Journal/PaperInformation.aspx?PaperID=90241</a>
Journal Paper	Madeeha Saqib, Tooba Nasir, Saqib Saeed, Sardar Zafar Iqbal, Hina Gull	Web 2.0 Usage among Students for Academic Activities: A study of Computing Undergraduate Students in Pakistan	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 8 (2019) pp. 1892-1897	Published 2019	<a href="https://www.ripublication.com/ijaer19/ijaerv14n8_19.pdf">https://www.ripublication.com/ijaer19/ijaerv14n8_19.pdf</a>
Conference Paper	Hina Gull, Mahwash Farooqui, Mahira Illyas, Sardar Zafar Iqbal, Aftab Khan, Gomathi Krishna	Impact of Social Media on Emotional State of Saudi Female Millennials in Eastern Province of Saudi Arabia	The 2018 International Conference on Computational Science and Computational Intelligence USA	Published 2019	<a href="https://ieeexplore.ieee.org/document/8947859">https://ieeexplore.ieee.org/document/8947859</a>
Journal Paper	Hina Gull , Sardar Zafar Iqbal , Saeed Hussein Al_Qahtani , Reem A. Alassaf , Mahi M. Kamaleldin	Impact of Social Media Usage on Married Couple Behavior a Pilot Study in Middle East	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 6 (2019) pp. 1368-1378	Published 2019	<a href="https://www.ripublication.com/ijaer19/ijaerv14n6_23.pdf">https://www.ripublication.com/ijaer19/ijaerv14n6_23.pdf</a>
Conference Paper	Saqib Saeed, Sardar Zafar Iqbal, Hina Gull, Yasser Bamarouf, Mohammed Alqahtani	Collaboration at Workplace: Technology Design Challenges of Segregated Work Environments	2019 Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019)	Published 2019	<a href="https://ieeexplore.ieee.org/document/8869102">https://ieeexplore.ieee.org/document/8869102</a>

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Conference Paper	Mariam Elhussain, Hina Gull	Big Data Framework for Health Informatics: A Solution for Influenza Surveillance in Saudi Arabia)	Saudi Computer Society, 21st National Computer Conference (NCC™2018)	Published 2018	<a href="https://ieeexplore.ieee.org/document/8593083">https://ieeexplore.ieee.org/document/8593083</a>
Journal Paper	Hina Gull, Sardar Zafar Iqbal, Saqib Saeed, Mohammad Alqahtani, Yasser Bamarouf,	Design and Evaluation of CPU Scheduling Algorithms Based on Relative Time Quantum: Variations of Round Robin Algorithm	Journal of Computational and Theoretical Nanoscience, Vol. 15 No. 8, August 2018 (2483–2488 (2018)	Published 2018	<a href="http://www.aspbs.com/ctn.html">http://www.aspbs.com/ctn.html</a>
Conference Paper	Hina Gull, Sardar Zafar Iqbal	Reflection in Teaching Human Computer Interaction to Undergraduate Students	The 2018 International Conference on Computational Science and Computational Intelligence USA	Published 2018	<a href="https://ieeexplore.ieee.org/document/8947678">https://ieeexplore.ieee.org/document/8947678</a>
Journal Article	Saqib Saeed, Hina Gull, Sardar Zafar Iqbal	Web 2.0 Usage by Saudi Female Students for Information sharing in Public Sector University A Pilot Study	International Journal of Public Administration in the Digital Age IJPADA: Volume 4, Issue 3, Article 6 2016.	Published (02/2017)	<a href="https://www.igi-global.com/article/web-20-usage-by-saudi-female-students-for-information-sharing-in-public-sector-university-a-pilot-study/181609">https://www.igi-global.com/article/web-20-usage-by-saudi-female-students-for-information-sharing-in-public-sector-university-a-pilot-study/181609</a>
Book Chapter	Hina Gull, Sardar Zafar Iqbal	Usability Evaluation of E-Government Websites in Saudi Arabia by Cognitive Walkthrough	IGI Global	Published (01/2017)	<a href="http://www.igi-global.com/book/design-solutions-user-centric-information/169253">http://www.igi-global.com/book/design-solutions-user-centric-information/169253</a>

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Journal Article	Hina Gull, Sardar Zafar Iqbal, Madeeha Saqib	Usability Evaluation of an Educational Website in Saudi Arabia	VAWKUM Transactions on Computer Sciences.	Published (02/2016)	<a href="http://vfast.org/journals/index.php/VTCS/article/view/382">http://vfast.org/journals/index.php/VTCS/article/view/382</a>
Journal Article	Hina Gull, Saleh AlRashed, Sardar Zafar Iqbal	Validation of Usability Driven Web based Software Process Model using Simulation	Procedia Computer Science Elsevier, Volume 62, 2015	Published (09/2015)	<a href="http://www.sciencedirect.com/science/article/pii/S1877050915026551">http://www.sciencedirect.com/science/article/pii/S1877050915026551</a>
Book	Sardar Zafar Iqbal, Hina Gull	Book: Development of New Sorting Algorithms: Novice Addition to Sorting World	LAP LAMBERT Academic Publishing (November 21, 2012)	Published (11/2012)	<a href="https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-8383-3281-9/development-of-new-sorting-algorithms">https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-8383-3281-9/development-of-new-sorting-algorithms</a>
Conference Paper	Sardar Zafar Iqbal, MohammadalHasan Ismail, Hina Gull	New Relative Concatenate Sorting Algorithm	IEEE International Conference of Computer Science and Automation Engineering.	Published (05/2012)	<a href="http://ieeexplore.ieee.org/document/6272536/">http://ieeexplore.ieee.org/document/6272536/</a>
Conference Paper	Farooque Azam, Hina Gull, Saeeda Bibi, Sameera Amjad	Back and Forth (BnF) Software Process Model	2010 Second International Conference on , vol.1, no., pp.426-430, 19-21 March 2010	Published (March 2010)	<a href="http://ieeexplore.ieee.org/document/5445794/">http://ieeexplore.ieee.org/document/5445794/</a>

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Conference Paper	Sardar Zafar Iqbal, Hina Gull, Abdul Wahab Muzaffar	A New Friends Sort Algorithm	2nd IEEE International Conference on Software Engineering and Information Technology	Published (08/2009)	<a href="http://ieeexplore.ieee.org/document/5234550/">http://ieeexplore.ieee.org/document/5234550/</a>
Conference Paper	Hina Gull, Farooque Azam Third, Wasi Haider Butt, Sardar Zafar Iqbal	A New Divide and Conquer Software Process Model	International Conference on Computer, Electrical, and Systems Science, and Engineering	Published (12/2009)	<a href="http://waset.org/publications/6039/a-new-divide-and-conquer-software-process-mode">http://waset.org/publications/6039/a-new-divide-and-conquer-software-process-mode</a>
Journal Article	Hina Gull, Farooque Azam, Sardar Zafar Iqbal	Design of Novel Usability Driven Software Process Model	International Journal of Computer Science and Information Security	Published (Dec 2010)	<a href="https://sites.google.com/site/ijcsis/vol-8-no-9-dec-2010">https://sites.google.com/site/ijcsis/vol-8-no-9-dec-2010</a>
Conference Paper	Sardar Zafar Iqbal, Hina Gull, Jamil Ahmed	An Incremental Sort Algorithm	2nd IEEE International Conference on Computer and Electrical Engineering.	Published (12/2009)	<a href="http://ieeexplore.ieee.org/document/5380467/">http://ieeexplore.ieee.org/document/5380467/</a>
Journal Article	Saeeda Bibi, Farooque Azam, Sameera Amjad, Wasi Haider Butt, Hina Gull, Rashid Ahmed,	An Efficient SJRR CPU Scheduling Algorithm	International Journal of Computer Science and Information Security.	Published (05/2010)	<a href="https://sites.google.com/site/ijcsis/vol-8-no-2-may-2010">https://sites.google.com/site/ijcsis/vol-8-no-2-may-2010</a>



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## Administrative Work

#	Position	Place	From	to
1)	Chairperson CIS Program Quality Unit	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2020	Now
2)	Member of Practical Teaching Initiative Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2019	Now
3)	Member of CIS Program Quality Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2019	2020
4)	Member of Scientific Research Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2017	Now
5)	Member of Student Advising Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2017	2019
6)	Member of System Design Knowledge Group	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2016	2019
7)	Member of Public Relation and Documentation Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2017	2018
8)	Member of College Cooperative Training Committee	Imam Abdulrahman Bin Faisal University Dammam Saudi Arabia	2014	2019

## Courses Taught and Coordination Responsibilities:

	Course Name	Coordination Responsibility
1	Human Computer Interaction	<b>Coordinator for this course.</b> <b>Responsibilities includes</b> coordination with teaching team, Designing course lecture and labs for the course, Designing syllabus and evaluation breakdown (shared with faculty), Designing continuous improvement plan and share it with faculty and make it sure to complete it at the end of the term, Designing exam and its distribution, Designing complete course portfolios.
2	Web Based System	Taught
3	Fundamentals of Information System	<b>Coordinator for this course.</b> <b>Responsibilities includes</b> coordination with teaching team, Designing course lecture and labs for the course,

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		Designing syllabus and evaluation breakdown (shared with faculty), Designing continuous improvement plan and share it with faculty and make it sure to complete it at the end of the term, Designing exam and its distribution, Designing complete course portfolios.
4	System Analysis and Design	<b>Coordinator for this course.</b> <b>Responsibilities includes</b> coordination with teaching team, Designing course lecture and labs for the course, Designing syllabus and evaluation breakdown (shared with faculty), Designing continuous improvement plan and share it with faculty and make it sure to complete it at the end of the term, Designing exam and its distribution, Designing complete course portfolios.
5	Technical Reports	<b>Coordinator for the course.</b> Responsibilities includes coordination with teaching team, Designing course lecture and labs for the course, Designing syllabus and evaluation breakdown (shared with faculty), Designing continuous improvement plan and share it with faculty and make it sure to complete it at the end of the term, Designing exam and its distribution, Designing complete course portfolios.

## Personal Key Competencies and Skills:

1	<b>Language:</b> C#, Php, ASP.Net, C, C++, Java, Python (Preliminary), HTML5.0, Javascript
2	<b>Database:</b> MS SQL Server
3	<b>Human Computer Interaction:</b> Balsmiq Prototype, Axure Prototyper

## Practical Experience

1. Design and Implement five new CPU scheduling algorithms in C#
2. Implementation of Machine Learning Algorithms for prediction of student grades in Python
3. Design and Implement three new sorting algorithms in C#
  - a. Implement all three new techniques in C#
  - b. Implement a comparator to compare existing techniques in C#.
4. Development of Urdu/Arabic Web Development Software:
  - a. Developed Urdu/Arabic based web development software in C# and ASP.net as bachelor's final year project.

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## 5. Sentiment analysis of Pakistani politician Tweets in Python:

- a. Implemented a program to perform sentiment analysis of Pakistani politician tweets using Python.
- b. Generated graphs using python language.

## 6. Hands on Experience in using Tableau:

- a. Used tableau as a data analysis tool for research work.

## 7. Developed an official website of Qassim Pvt Colleges

- a. Developed Official website of Qassim Pvt Colleges in Joomla