Hassan Asghar

Personal Data

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Research Interests

My research interests are in the broader areas of Scheduling, Edge Computing, Cloud Computing and Machine Learning.

What makes me a best candidate for this position?

1. **Academic Qualification** I have M.S. degree in Computer Science and possess a great passion for teaching, research, and development.

2. **Relevant Research & Development Experience** I have a broad range of research expertise including in-depth understanding of Scheduling, Edge Computing, Cloud Computing and Machine Learning.

3. **Supervision Experience** I have co-supervised one BS thesis in Computer Science Department at Govt. Girls Postgraduate College No.1, Abbottabad, Pakistan, as mentioned in the experience section and research work is published in SCI Journal titled The Journal of Supercomputing by Springer.

4. **International Collaboration Experience** I have international collaboration experience in the South Korea on different research projects, as reflected in my publications.

5. **Lecturer & Teacher Assistant Experience** I worked as a Computer Science Lecturer at The Creators College, Abbottabad, Pakistan. Moreover, I also served as a teaching assistant (TA) for several undergraduate and graduate-level courses.

Educational Profile

2015 - 2018	Master of Science in COMPUTER SCIENCE, **COMSATS University Islamabad**, Abbottabad Campus, Pakistan **Thesis Title:** "Comparative Analysis of Task Level Reactive Fault Tolerance Techniques in Hadoop Map Reduce Towards Performance Evaluation" **Advisor**: Associate. Prof. Dr. Babar Nazir CGPA: 3.61/4.0
2009 - 2014	Bachelor of Science in COMPUTER SCIENCE, **SZABIST**, Islamabad Campus, Pakistan **Project Title:** "RFID Based Android Application" **Advisor**: Mr. Zubair Ahmed CGPA: 2.74/4.0

Academic Research, Teaching, Supervision and Industry Experience

April, 2021 - Feb 2022 Academic Supervision COMPUTER SCIENCE DEPARTMENT, **Govt. Girls Postgraduate College No.1, Abbottabad, Pakistan.**
Responsibilities: I have co-supervised the following BS thesis in Computer Science Department at Govt. Girls Postgraduate College No.1, Abbottabad, Pakistan.
- Laiba Hamid: Comparative Analysis of Task Level Heuristic Scheduling Algorithms in Cloud Computing.

January, 2019 - April 2021 REGIONAL MANAGER, AT REGIONAL OFFICE GUJRANWALA, **The Spirit Schools**, Lahore, Pakistan.
Responsibilities: Handling of Customer inquiries often involve some form of complaint that must handle in accordance with the company's guidelines and policies. Answering telephone calls and making the appropriate transfers. Processing new client accounts, maintaining customer accounts, implementing changes to existing accounts, and filing documents and other paperwork. Making Presentations and usage of Microsoft Office. Daily Regional Collection Sheet, Update royalty ledgers, Category wise campus segregation, Campus wise folders of royalty slips, Separate campus files, Updated student's strength record, Monthly traveling record, Monthly petty cash Bills.

April 2017 - Dec 2017 Lecturer Computer Science **The Creators College**, Abbottabad, Pakistan.
At Creators College, my duties were 1) To teach the students of ICS and B.Com. 2) Support the day to day IT issues and setup the IT Lab for college students. 3) Had created and maintained the official website of the college namely (https://www.thecreators.edu.pk). Moreover, I implemented differentiated teaching methods, drafted homework and quizzes, conducted discussion sessions during office hours, prepared exams, and finalized the grading.

April 2016 – April 2017 IT Support Engineer **Pakistan Post Office, GPO Abbottabad**, Abbottabad, Pakistan.
My duties were but not limited to 1) Providing support in the event of software failure. 2) To support customers inquires and complaints regarding UMS tracking. 3) Working on system maintenance patches and data fixes.

Publications

Google Citations: 6, ResearchGate Score: 7.5

Peer-reviewed Journal Articles - SCI/SCIE:

* = Corresponding Author

1. **Hassan Asghar**, Eun-Sung Jung, "A Survey on Scheduling Techniques in the Edge Cloud: Issues, Challenges and Future Directions", (Status: Under Review)

2. Laiba Hamid, Asmara Jadoon, **Hassan Asghar***, "Comparative Analysis of Task Level Heuristic Scheduling Algorithms in Cloud Computing", The Journal of Supercomputing, (IF: 2.474)

3. **Hassan Asghar**, Babar Nazir, "Analysis and Implementation of Reactive Fault Tolerance Techniques in Hadoop: a Comparative Study", The Journal of Supercomputing, (IF: 2.474)

Peer-reviewed Proceedings and Conferences:

1. **Hassan Asghar**, Soo-hyuck Choe, Jin-Wook Choi and Eun-Sung Jung, "Systematic Benchmarking/Profiling Approaches to Improve I/O Performance of GloSea" In proceedings of 10th International Conference on Green and Human Information Technology, Jeju Island, Korea, Jan. 19-21, 2022.

Invited Talks & Presentations

Paper Presentations

1. Systematic Benchmarking/Profiling Approaches to Improve I/O Performance of GloSea
Venue: 10th International Conference on Green and Human Information Technology, Jeju Island, Korea.

Professional Services

International Journals: Verified Reviewer @ ORCID

1. The Journal of Supercomputing (Springer)

International Conferences Attended

1. 2022 - 10th International Conference on Green and Human Information Technology.
   Venue: Jeju Island, South Korea).

Technical Skills

Programming	SQL Server, Jasper Report, Crystal Report, Java, JSP, JDBC, Servlets, HTML, CSS, C++, C Sharp, Linux, Hadoop 2.2.0, MapReduce, Git, Ant
Tools	Eclipse, Dreamweaver
Misc.	Origin, Wireshark, Packet Tracer, MS Office

References

1. **Dr. Safdar Zaman**,
   Associate Professor,
   COMSATS University Islamabad,
   Abbottabad Campus, Pakistan.
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2. **Dr. Shahzad Latif**,
   Assistant Professor,
   SZABIST,
   Islamabad Campus, Pakistan
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3. **Dr. Babar Nazir**,
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   COMSATS University Islamabad,
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