DR. MOHSIN ALTAF WANI

CONTACT

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CORE QUALIFICATIONS

- Design & Analysis of Algorithms
- High performance Computing
- CUDA
- C/C++ JAVA
- Neural Networks
- Python
- Numerical analysis
- Data Structures
- Deep learning
- ASP .NET
- Design Patterns
- Machine Learning
- Microprocessor architecture

RESEARCH AREAS

- Reinforcement Learning
- Generative Deep Learning
- Parallel Computing.
- Algorithm design

EDUCATION

Ph.D.: Computer Science, 04/2019
University of Kashmir -India
Optimizing Combinatorial Optimization Algorithms for Accelerated Parallel Processing on High Performance Computing System.

PROFESSIONAL SUMMARY

Pragmatic and solution oriented with a wide variety of professional experiences.
Articulate Computer Teacher offering 10-year background teaching computer principles to students at various levels. Motivating and encouraging educator with excellent knowledge of computer software and solid program presentation skills.
Experienced developing applications, databases and in Data Science. Smart professional with proven troubleshooting and debugging capabilities for resolving complex technical issues. Expert in diverse programming languages. Innovator with deep knowledge of latest industry trends and advancements.

EXPERIENCE

Assistant Professor, 08/2013 - Current
University Of Kashmir – Srinagar, India

Department of Computer Science
- Developed and taught courses on Design and Analysis of Algorithms, Data structures, Microprocessor organization, Java, theory of computation, Numerical Analysis.
- Carried out research on parallel processing of combinatorial algorithms using GPU's.
- Currently working on distribution of parallel workload for breadth and depth first search algorithms using binary vectors on hybrid parallel processing systems.
- Mentored Master's degree students to carry out various projects which are part of their curriculum.
- Teaching and research experience in Deep learning, reinforcement learning.
- Experience in supervising Ph.D scholars in the field of reinforcement learning.

Scientific Officer, 05/2010 - 01/2012
National Informatics Center -Srinagar, India

National Informatics center, Ministry of Info. & Comm. technology, India
- Developed software for Government to manage pension and keep record of public sector employees in the state ASP.NET in conjunction with SQL server was used.
- Developed application of collecting and analyzing data used for providing insurance to people living below poverty line.
- Developed websites for government departments in the State.
- Provided consulting to several government departments for developing software as per their requirements.

Master of Computer Applications,
05/2008
University of Kashmir -India
Developed Web Server for hosting both static & Dynamic content using JAVA

Bachelor of Computer Applications,
03/2005
University of Kashmir

PUBLICATIONS

- Statically Optimal Binary Search Tree Computation using non-serial Polyadic Dynamic programming on GPU's. International Journal of Grid and High Performance Computing (IJGHPC), 11(1), 49-70. ISSN 1938-0259 doi:10.4018/IJGHPC.2019010104
- GPU Based Non-Serial Polyadic Dynamic Programming Template. Recent Trends in Parallel Computing. 2017; 4(3): 29–39p. eISSN-2393-8749
- A Fast GPU based implementation of optimal binary search tree using dynamic programming, ICICCT 2017. Communications in Computer and Information Science, Vol. 750. Springer, Singapore. ISBN: 978-981-10-6543-9, 978-981-10- 6544-6.
- Sumdoc: A Unified Approach for Automatic Text Summarization, Proceedings of Fifth International Conference on Soft Computing for Problem Solving, Vol. 1. Springer, Singapore. ISBN: 978-981-10-0447-6, 978-981-10-0448-3.
- An Optimized Parallel Algorithm for Hamiltonian Cycles Searching (presented in international conference on electrical, electronics, communication & robotics engineering).