

Mohit Kumar

USA

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OBJECTIVE

Ph.D. candidate in Computer Science at Wayne State University looking for a challenging and innovating Co-op/Internship position in the field of Computer Science.

EDUCATION

- 2014 to present :** **Ph.D.** in Computer Science, Wayne State University, USA
- 2018** : **M.S.** in Computer Science, Wayne State University, USA
 Thesis: Energy Efficiency of Java Programming Language
- 2012** : **B.Tech.** in Computer Science & Engineering, MDU, Rohtak, India

PUBLICATIONS

- Mohit Kumar, Saurabh Gupta, Tirthak Patel, Michael Wilder, Weisong Shi, Song Fu, Christian Engelmann and Devesh Tiwari, [Understanding and Analyzing Interconnect Errors and Network Congestion on a Large Scale HPC System](#), in Proceedings of the 48th IEEE/IFIP International Conference on Dependable Systems and Networks (**DSN**), Luxembourg, June 25-28, 2018.
- Youhuizi Li, Mohit Kumar, Weisong Shi and Jian Wan, [Falcon: An Ambient Temperature aware Thermal Control Policy for IoT Gateways](#), **Sustainable Computing: Informatics and Systems**, Vol. 16, December 2017, pp.48-55
- Mohit Kumar, Youhuizi Li and Weisong Shi, [Energy Consumption in Java: An Early Experience](#), in Proceedings of the 8th **International Green and Sustainable Computing Conference (IGSC)**, Orlando, FL, Oct 23-25, 2017

UNDER REVIEW

- **Energy Efficiency of Java Programming Language**, IEEE Transactions on Sustainable Computing

INTERNSHIPS

- Advance Short-Term Research Opportunity at **Oak Ridge National Laboratory, TN**
 - Study network resiliency in **Titan** Supercomputer
 - Characterize different type of interconnect failures
- Teaching Assistant at **Grand Circus: Coding Bootcamps**, in Detroit

- Two months training in **Ministry of Communication & Information Technology, Govt. of India** where our team worked on “E-governance” project

WORK EXPERIENCE

- Served as **Software Developer** in **NANOTECH –IT Solutions PVT. LTD., Patna** from **Aug 13,2012 to Jun 20,2013**
 - Interacting with the clients regarding their requirements
 - Used computer languages such as C, C++, JAVA, HTML to develop projects
 - Designing software for school, college & office management
 - Testing software for robustness

TEACHING EXPERIENCE

- Fall 2014, Fall 2015, and Winter 2016 Lab Instructor for CSC1101: Problem Solving and Programming Lab
- Winter 2015, Fall 2017, and Winter 2018 Course TA for CSC4996: Senior Project and Computer Ethics
- Winter 2017 Lab Instructor for CSC 1501 Fundamental Structures in Computer Science Lab
- Summer 2017 Instructor for CSC 1100: Problem Solving and Programming

SKILLS

| | | |
|-----------------|---|---|
| Language | : | Java, Python, C, C++, R, MATLAB, Scala, SQL |
| Web application | : | HTML, CSS, JavaScript, jQuery, PHP |
| Database | : | Oracle, MySQL, MongoDB, Riak, PostgreSQL, CouchDB |
| Statistics | : | SPSS, SAS |

ACADEMIC AWARDS

- First position in 2016 Detroit Intel IoT Competition - Detroit Intel IoT Innovators Lab (https://www.hackster.io/mistlab/adolescent-monitoring-system-ecfd80/embed?use_route=project)
- Web Design for Everybody (Basics of Web Development and Coding), a 5-course specialization by University of Michigan on Coursera. Specialization Certificate earned on July 24, 2016 (<https://www.coursera.org/account/accomplishments/specialization/certificate/ZM6CYZDXRAN2>)
- The Data Scientist’s Toolbox by Johns Hopkins University on Coursera. Certificate earned on August 29, 2015 (<https://www.coursera.org/account/accomplishments/certificate/6LNZ9XLKHX>)
- Programming Mobile Applications for Android Handheld Systems: Part 1 by University of Maryland, College Park on Coursera. Certificate earned on August 28, 2015 (<https://www.coursera.org/account/accomplishments/certificate/RKQFVKS2QA>)
- Introduction to Programming with MATLAB by Vanderbilt University on Coursera. Certificate earned on June 16, 2015(<https://www.coursera.org/account/accomplishments/verify/RKQFVKS2QA>)
- Programming for Everybody (Python) by University of Michigan on Coursera. Certificate earned on April 28, 2015(<https://www.coursera.org/account/accomplishments/verify/4YXB8SRFU3>)