# Raghava Mutharaju

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**Research Interests**

Large Scale Computation, Ontology Reasoning, RDF Query Processing, Semantic Web Applications, Knowledge Graph

**Education**

Wright State University, Dayton, OH, USA — Apr 2016
- PhD in Computer Science
- Thesis: Distributed Rule-Based Ontology Reasoning

Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India — Jun 2006
- Master of Technology, Computer Science
- Thesis: Traceability from Use Case to .NET Assembly via Design Patterns

Jawaharlal Nehru Technological University (JNTU), Hyderabad, India — May 2004
- Bachelor of Technology, Computer Science

**Industry Exeperience**

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|---|---|
| IBM T.J. Watson Research Center, NY | Jun 2015 – Aug 2015 |
| IBM Research, Dublin, Ireland | Jun 2013 – Aug 2013 |
| Alcatel-Lucent Bell Labs, Dublin, Ireland | Jun 2012 – Aug 2012 |
| Xerox Research Center, Webster, NY | Jun 2011 – Aug 2011 |
| Complexible Inc., Boston, MA | Jun 2010 – Aug 2010 |
| CA Technologies, Hyderabad, India | Aug 2006 – Dec 2008 |

**Technical Skills**

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| Programming Languages: | Java, C, C++ |
| Semantic Technologies: | OWL, RDF, SPARQL |
| Other Technologies: | XML, SQL |
| Frameworks: | Hadoop |
| NoSQL Stores: | Redis, MongoDB, Neo4j, HBase |

**Projects**

**Scalable Ontology Reasoning:** Developed large scale systems based on shared-nothing and shared-memory architecture.

**Scalable RDF Query Processing:** Developed efficient query processing techniques over the RDF graph which is partitioned across a cluster of machines.

**Temporal Consistency Checking in Marketing Workflows:** Developed a temporal model in OWL and implemented James Allen's temporal operators as SWRL rules.

**Situational Understanding from Social data:** Developed an ontology and reasoning services on top of that ontology to help in situational awareness of events.

**Ontology driven Data Integration:** Converted data from relational database and spread sheets to RDF using Jena and D2RQ.

**Publications**

Published 20+ papers and cited 175+ times. Venues: ESWC, ISWC, ECAI, ODBASE, WISE, OWLED, SSWS, DL. Full record: Home page, Google Scholar