



# RohitKumar

## Big Data and Data Science Practitioner

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### Programming

Java ★★★★★  
Scala ★★★★★  
R ★★★★★  
Python ★★★★★

### Databases

MySQL ★★★★★  
MS SQL ★★★★★  
Oracle ★★★★★  
Coherence ★★★★★

### Big Data Systems

Spark ★★★★★  
Hadoop ★★★★★  
Flink ★★★★★  
Kafka ★★★★★  
NoSQL ★★★★★

## Experience

- Jul. 18 - Now **Researcher** [Eurecat, Barcelona, Spain](#)  
Working as Researcher in the Big Data analytics group in Eurecat. Working in multiple projects providing consulting and development support for big data tools. Mostly working in Elastic search, Spark, MongoDB, Hive and Pig. Also managing the in house private cloud infrastructure using Red Hat Openstack Cloud Platform.
- Jun. 14 - Jul. 14 **Software Designer** [Royal bank of Scotland, Delhi, India](#)  
Developed data pipelines for the massive amount of banking and trading data for RBS using in-memory database on Oracle Coherence.
- Apr. 11 - May. 14 **Assistant Consultant** [Tata Consultancy Services, Mumbai, India](#)  
Technical team lead and Scrum Master for the entire online assessment platform, an online cloud based system for conducting online examinations and certifications. As technical lead I was responsible for 10 different products on the assessment platform and was supervising a team of 30 developers. I was the lead architect and developer for the deployment of the complete rco-system of the online assessment platform in multi-tenant architecture for software as a service model. I also contributed as technical expert in pre sales and helped in designing new product offerings for the education domain. Technologies used: J2EE, Java, MySQL, SVN, Struts 2, Hibernate, Memcached, Adobe Flex
- Mar. 11 - Sep. 11 **Researcher** [Tata Research Development and Design Center, Pune, India](#)  
Worked on data privacy and data security. Worked on data masking techniques for privacy preserving data mining. Technologies used: C++, CVS
- Nov. 07 - Mar. 11 **Assistant System Engineer** [Tata Consultancy Services, Chennai, India](#)  
Lead architect to develop and deploy the online assessment platform for TCS hiring throughout India. Performance and Security Lead for the online assessment platform. Taught Algorithms and Java to new employees as a part of learning and development program. Technologies used: Java, CVS, Haskel, Java Security library, MS SQL.
- Jun. 05 - Jun. 07 **Summer Research Intern** [JNCSAR, IISC, Bangalore, India](#)  
Did two summer(2 months) and one winter(1 month) research internship in Nanoscience. Worked with P.hD students on analyzing nano material properties under electron microscopes.

## Languages

English ★★★★★  
Hindi ★★★★★  
Spanish ★☆☆☆☆

## Personal Skills



## Education

- Aug. 14 - Jun. 18 **Ph.D Candidate** [Université Libre de Bruxelles & Universitat Politècnica de Catalunya](#)  
Doing PhD from ULB on Graph Stream mining and distributed processing.
- Aug. 08 - Apr. 11 **M.Sc in Computer Science** [Chennai Mathematical Institute, India](#)  
The Master course was done part time while working in TCS. Main subjects: Discrete Mathematics, Database Systems, Operating systems, Data mining, Cryptography, Statistics, Design and Analysis of Algorithm, Theory of Computation, Programming language Concepts. Grade: **8.44%**  
Thesis: Security aspects of online Assessment platform-Touchstone.
- Jul. 04 - Jul. 07 **B.Sc (Hons) in Physics** [Hindu College, Delhi University](#)  
Did summer research internship at IISC Bangalore every summer break. Co-Organized Physics Department fest on 2006. Percentage: **76.1%**

## Awards and Achievements

- Apr. 13 **Best Technical Lead Award in ACTION2013 in SMB iON** [TCS](#)  
Awarded best technical lead in the entire department of 500 developers and 25 teams.
- Sep. 11 **Innovation of the year award southern region** [Tata Innovista](#)  
Tata group yearly award for innovations across the Tata groups companies.

## Publications

- 2018 **2SCENT: An Efficient Algorithm to Enumerate All Simple Temporal Cycles.** [VLDB](#)  
**Rohit Kumar** and Toon Calders
- 2018 **Towards Location Influence in Location-Based Social Networks.** [KAIS-Journal](#)  
Muhammad Aamir Saleem, **Rohit Kumar**, Toon Calders, Xike Xie and Torben Bach Pedersen
- 2017 **Activity-Driven Influence Maximization in Social Networks** [ECML/PKDD](#)  
**Rohit Kumar**, Muhammad Aamir Saleem, Toon Calders, Xike Xie and Torben Bach Pedersen
- 2017 **Cost Model for Pregel on GraphX** [ADBIS](#)  
**Rohit Kumar**, Alberto Abello, and Toon Calders
- 2017 **Information Propagation in Interaction Networks.** [EDBT](#)  
**Rohit Kumar** and Toon Calders
- 2017 **Location Influence in Location-based Social Networks.** [WSDM](#)  
Muhammad Aamir Saleem, **Rohit Kumar**, Toon Calders, Xike Xie and Torben Bach Pedersen

2017	<b>Finding simple temporal cycles in an interaction network.</b> <b>Rohit Kumar</b> and Toon Calders	<a href="#">TD-LSG</a>
2017	<b>IMaxer: A Unified System for evaluating Influence Maximization Mechanisms in Location-based Social Networks</b> Muhammad Aamir Saleem, <b>Rohit Kumar</b> , Toon Calders, Xike Xie and Torben Bach Pedersen	<a href="#">CIKM</a>
2017	<b>Cost Model Based Approach for Graph Partitioning in Spark GraphX</b> <a href="#">DBDD</a> <b>Rohit Kumar</b> , Alberto Abello, and Toon Calders	
2015	<b>Maintaining sliding-window neighborhood profiles in interaction networks.</b> <b>Rohit Kumar</b> , Toon Calders, Aristides Gionis, and Nikolaj Tatti.	<a href="#">ECML/PKDD</a>

## Patents

2009	<b>System and method for automated competency assessment</b> Raman Srinivasan, Priyadarshini Sridhar, Swarna Srinivasan, <b>Rohit Kumar</b> , Radhika Jayapaul, Radhika Ganesan, Amit Nath, Vikash Agarwal	<a href="#">US8915744</a>
2013	<b>Customized question paper generation</b> Viral Prakash SHAH, Nawaz Shaikh, <b>Rohit Kumar</b>	<a href="#">US20130084554A1</a>
2014	<b>Secured Computer Based Assessment</b> Viral Prakash SHAH, Nawaz Shaikh, <b>Rohit Kumar</b>	<a href="#">US20140186812A1</a>

*Rohit Kumar*  
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