

# ROHIT KUMAR

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Personal website: <http://rohit13k.github.io/>

## RESEARCH INTEREST

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Big Data platforms, Data Stream Mining, Graph Stream Mining and Distributed Processing, Data Security and Privacy.

## SUMMARY

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I am an ambitious, enthusiastic and talented individual with a keen eye for detail and a flair for new startups and projects. I have got an opportunity to work on a new initiative and take it from an internal project to a million dollar business. My objective is to work in a challenging work environment and to learn something new every day. I worked in IT industry for 6.5 years before moving to Europe to pursue my passion for research and knowledge. Currently, I am pursuing my Ph.D. in “Graph Data stream mining and distributed processing” from ULB(Brussels) and UPC(Barcelona). I have 6 publications in top conferences and 1 granted and 2 applied patents.

## EDUCATION

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**Université Libre de Bruxelles (ULB), Belgium & Universitat Politècnica de Catalunya (UPC), Spain** August 2014 - Now

- Joint PhD in Computer Science
- Research Topic: Graph Stream mining and distributed processing

**Chennai Mathematical Institute, India** April 2008 - March 2011

- M.Sc in Computer Science
- Thesis Topic: Security aspects of online Assessment platform-Touchstone

**Hindu College Delhi University, India** July 2004 - July 2007

- B.Sc(Hons) in Physics

## WORK EXPERIENCE

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**ULB** August 2014 - now  
*PhD Candidate* *Brussel, Belgium*

- 1 A\* rank, 2 A rank and 1 B rank full conference papers published.
- Working on Graph stream mining algorithms for different use cases influence propagation or fraud detection.
- Working on Apache GraphX and other Distributed Graph processing systems.

**Royal bank of Scotland** June 2014 - July 2014  
*Software Designer* *New Delhi, India*

- Developing high availability query systems on Oracle Coherence.

**Tata Consultancy Services** April 2013 - May 2014  
*Assistant Consultant* *Mumbai, India*

- Technical team lead for the development of an Online Assessment software.
- Client interaction and designing new offerings for education domain.

- Managed a team of 30 software developers.

### **Tata Consultancy Services**

*IT Analyst*

April 2011 - March 2013

*Mumbai, India*

- Managed the technical aspects of expanding my master's thesis from in house incubation to a million dollar business for TCS.
- Developed and deployed the complete Eco-system of the online assessment platform in multi-tenant architecture for software as a service model.
- Managed a team of 10 software developers.

### **TCS - Tata Research Development and Design Center**

*Researcher*

April 2011 - September 2011

*Pune, India*

- Worked on data privacy and data security.

### **Tata Consultancy Services**

*Assistant System Engineer*

Nov 2007 - March 2011

*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.

### **JNCSAR, IISC, Bangalore**

*Summer Research Intern*

2004 - 2007

*Bangalore, India*

- Did two summer(2 months) and one winter(1 month) research intern in Nanoscience.

## **TECHNICAL SKILLS**

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|--------------------|---|
| <b>Programming</b> | J2EE, Java, Scala, C++, R-basics                            |
| <b>Databases</b>   | MySQL, Microsoft SQL, MongoDB, Oracle Coherence             |
| <b>Frameworks</b>  | Hadoop, Apache Spark, Apache Storm, Kafka, Struts 2, JDBC   |
| <b>Tools</b>       | SVN, CVS, github, Eclipse, RStudio, Octave, Matlab, gnuplot |

## **AWARDS AND ACHIEVEMENTS**

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- FNRS-Belgian National Funds for Scientific research, Scholarship for Doctoral Research Study.
- Best Technical Lead Award in ACTion2013 in SMB iON, TCS.
- Special initiative Award by TCS in May 2013.
- Technical Excellence Award by TCS in March 2012.
- Innovation of the year award southern region in TATA Innovista 2011.
- Senior Diploma in Arts and Painting from Ankan Kala Bibhag, Ravindra Bharti University in 2006.

## **PUBLICATIONS AND PATENTS**

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- Finding simple temporal cycles in an interaction network. ECML/PKDD 2017 (Workshop paper)
- Activity-Driven Influence Maximization in Social Networks. ECML/PKDD 2017 (Nectar Track)
- Cost Model for Pregel on GraphX. ADBIS 2017
- Information Propagation in Interaction Networks. EDBT 2017
- Location Influence in Location-based Social Networks. WSDM 2017
- Maintaining Sliding-Window Neighborhood Profiles in Interaction Networks. ECML/PKDD 2015
- System and method for automated competency assessment (US8915744) - Granted
- Secured Computer Based Assessment (US20140186812A1) - Applied
- Customized question paper generation (US20130084554) - Applied