Rohit Kumar

Big Data and Data Science Practitioner

Address

Barcelona
Spain

Phone

+34 632 879 170

Mail

rohit1308k@gmail.com

Programming

Java	★★★★★
Scala	★★★★☆
Python	★★★☆☆
C++	★★★☆☆

Databases

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

Big Data Systems

Spark	★★★★★
Hadoop	★★★★☆
Kafka	★★★☆☆
Elastic	★★★☆☆
NoSQL	★★★☆☆

Experience

Jul. 18 - Now

Big Data Researcher   Eurecat, Barcelona, Spain

Working as Big Data Researcher 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.

Aug. 14 - Jun. 18

Big Data Engineer (Freelance)   Upwork

Worked on multiple short and long term projects for multiple clients on big data and data science domain.

- Disperse.io: Worked on analyzing and discovering trends in Wi-Fi data for London metro stations. Worked as data engineer in data cleaning and data analysis using Spark-SQL.
- Discovergy: Worked on smart meter applications. Developed a machine learning based platform on top of Spark streaming to collect, store and analysis data from smart meters.
- L3Networks: Designed and implemented a processing system that could process web logs arriving at the rate of 46GB/min in real-time. Designed the architecture and the data processing pipeline using Apache Kafka, Apache Spark and Apache Hadoop using Java and Scala Languages. The work included deployment of these technologies as well.
- DigitalVidya: Designed and delivered online course on Big Data Engineering course (Hadoop, Spark, Hive, Pig, Cassandra, NoSQL) for DigitalVidya for 3 batches of 10 students. Currently delivering a course on Data Science with Python (NumPy, Pandas, scikit-learn) and R.

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

Languages

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

Personal Skills

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.

Education

Aug. 14 - Jul 2018   **Ph.D Candidate**   Université Libre de Bruxelles & Universitat Politécnica de Catalunya
PhD from ULB and UPC on Temporal Graph mining and distributed processing under joint supervision from Toon Calders and Alberto Abello, Funded by FNRS scholarship.

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: Discreet 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

Oct. 18   **Big Data Talent Award**   Big Data Congress, Barcelona
Received Big data talent award for best PhD in big data in Catalonia, Spain.

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 for Enumerating All Simple Temporal Cycles**   VLDB

2018   **Effective and Efficient Location Influence Mining in Location-Based Social Networks.**   KAIS

2018   **Activity-Driven Influence Maximization in Social Networks**   ECML/PKDD

2017   **Cost Model for Pregel on GraphX**   ADBIS

2017   **Information Propagation in Interaction Networks.**   EDBT

2017   **Location Influence in Location-based Social Networks.**   WSDM

2017   **Finding simple temporal cycles in an interaction network.**   TD-LSG

2017   **IMaxer: A Unified System for evaluating Influence Maximization Mechanisms in Location-based Social Networks**   CIKM

2017   **Cost Model Based Approach for Graph Partitioning in Spark GraphX**   DBDBD

2015   **Maintaining sliding-window neighborhood profiles in interaction networks.**   ECML/PKDD

Patents

2009   **System and method for automated competency assessment**   US8915744
Raman Srinivasan, Priyadharshini Sridhar, Swarna Srinivasan, **Rohit Kumar**, Radhika Jayapaul, Radhika Ganesan, Amit Nath, Vikash Agarwal

2013   **Customized question paper generation**   US20130084554A1
Viral Prakash SHAH, Nawaz Shaikh, **Rohit Kumar**

2014   **Secured Computer Based Assessment**   US20140186812A1
Viral Prakash SHAH, Nawaz Shaikh, **Rohit Kumar**

Rohit Kumar

October 30, 2018