

# RISHI MISHRA

Computer Science & Engineering (Bachelor of Technology)  
Indian Institute of Technology, Jodhpur

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## EDUCATION

EXAMINATION	UNIVERSITY	YEAR	CGPA/AGGREGATE
B.Tech	IIT Jodhpur	2015	9.06
Intermediate/+2	Indian School Bahrain (C.B.S.E)	2011	93.8%
Matriculation	Indian School Bahrain (C.B.S.E)	2009	94.6%

## SCHOLASTIC ACHIEVEMENTS

- Ranked 3<sup>rd</sup> out of 75 teams in **National Technical Challenge 2014** organized by IBM I-CARE 2014
- Scored the **highest CGPA (10/10)** in semester 1 in a class strength of over 150
- Among **top 0.5%** of over 4, 68,000 students who appeared for IIT-JEE 2011 and among **top 0.2%** of over 11, 00,000 students who appeared for AIEEE 2011
- Awarded **first prize** in **Gulf Chemistry Olympiad 2010** and **second prize** in **Gulf Physics Olympiad 2010** by the Gulf Council (115 schools)

## DIRECTI (MEDIA.NET) - SOFTWARE DEVELOPER

[July '15 – Present]

### REALTIME STATISTICS IN DRUID

- Set up druid (an open source fast column oriented datastore) to ingest logs from Kafka on various topics to power interactive historical and real-time analysis of event streams
- Lambda architecture to ingest realtime events from Kafka and batch ingest from Hadoop
- Scalable architecture which currently ingests realtime stream of nearly 20 GB per hour

### MINI CONTENT-MONETIZATION (Java, Spring Core, Spring MVC, Maven, JavaScript, PHP Laravel )

- Project was a minified version of ads serving and logging infrastructure
- JavaScript to extract relevant variables from publisher page (url, referrer page etc.) and send it to Java Spring-based backend
- Controllers written in Spring MVC to handle keyword click, ad click and logging services to handle logging pageviews, keywords displayed, keyword click, ads displayed, ad click etc
- Admin Interface written in PHP Laravel which would give statistics such as page views, keyword clicks, ad clicks with filters

### KAFKA REWIND TOOL (Java, Maven)

- Reverts the offset of a consumer group to the offset specified by a timestamp
- Used SimpleConsumer Api to first get the offset of file closest to the specified timestamp and then read and discarded messages to get to the offset of message closest to specified timestamp

## INTERNSHIP

### IMPROVING THE LOCATION OF FACILITIES THROUGH NETWORK MODIFICATION

[June '14 – Aug '14]

Dr. Sandeep Sen

Indian Institute of Technology, Delhi

- Worked on specific cases of the reverse median problem (**Reverse 1-median** problem and **Reverse 2-median** problem on **trees and cycles** and **Reverse 1-median** problem on **graphs containing 1 cycle**)
- Worked on transforming the Reverse k-median problem on trees and Reverse (k-1)-median problem on graphs containing 1 cycle into Reverse k-median problem on a path

## PROJECTS

### CARTESIAN AND TENSOR PRODUCTS OF A VARIANT OF HAMMING GRAPHS

[Feb'13 – April '13]

- The variant of Hamming graphs were defined as  $G_{n,d} = (V_G, E_G)$  where  $V_G = \{0,1\}^n$  and two vertices are adjacent if the Hamming distance  $H(u,v)$  between them is **greater than or equal to d**
- Properties such as presence of **Eulerian circuits**, **chromatic number**, **connectivity (edge and vertex)**, **regularity**, **diameter** etc. were studied upon for the graphs as well as the Cartesian and Tensor product of the graphs

### SMART TRAFFIC ANALYZER (IBM NTC 2014)

[September'14]

- Suggests **estimated arrival time** of bus based on **real time data** obtained from other users of the mobile app
- Used **clustering algorithms** to identify buses and tested the program on synthetic data generated by modelling the behavior of various entities on **probability distributions**

## TECHNICAL SKILLS

C, C++, Java, Spring, Kafka, Python, Matlab, Assembly Language (Intel 8085), MySQL