# Sakshi Chourasia

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## Education

| Program | University/Board | %/CGPA | Year |
|---|---|---|---|
| **M.S.** in **Computer Science & Engineering** | Indian Institute of Technology Madras | **8.4/10** | 2015 |
| **B.E.** in **Information Technology** | Chhattisgarh Swami Vivekanand Technical Uni. | **9.12/10** | 2012 |
| **XII** | Chhattisgarh Board of Secondary Education | **82.8%** | 2008 |
| **X** | Chhattisgarh Board of Secondary Education | **85.5%** | 2006 |

## Publications

- Sakshi Chourasia and Krishna M. Sivalingam, **"SDN Based Evolved Packet Core Architecture For Efficient User Mobility Support"**, in IEEE Conference on Network Softwarization (IEEE NetSoft), (London, UK), Apr. 2015.
- Sakshi Chourasia and Krishna M. Sivalingam, in **"Experimental Study of SDN Based Evolved Packet Core Architecture for Efficient User Mobility Support"**, in Resource Allocation in Next-Generation Broadband Wireless Access Networks, (Edited by Chetna Singhal and Swades De), IGI Global, 2016.

## Experience

**Software Engineer - Microsoft (R & D) India** **Jun'18 - Present**

- **Business Insights :** Working as a developer to generate the insights on Microsoft sales data.
  Designed and developed various Spark frameworks used across the teams responsible for data processing, data profiling. Also, developed Azure Data Modeler to help in doing reverse engineering and automatically generating data model on top of data present in Azure DataLake.
  I have also worked as Scrum Master to manage a team of 3 persons and deliver the project features end-to-end.
  **Technology & Tools:** Scala, C#, Azure Databricks, Spark, Azure DataLake, Azure ML, Power BI

**Software Developer - IBM India Software Labs** **Sep'15 - Jun'18**

- **Spectrum Scale Big Data Analytics :** Worked as a developer to integrate the Spectrum Scale product with Ambari.
  Designed and developed MPack for Spectrum Scale to run on HDP platform. Also, worked on crucial disk-partitioning algorithm which scaled over the 5000+ node cluster, developed script for service upgrade without data and meta-data loss.
  Worked on Namenode federation feature for Spectrum Scale with HDP3.
  **Technology & Tools:** Hadoop, Ambari, Java, Python, Bash

- **Secure Remote Access (SRA) :** Worked as a developer with the Storage Development team of IBM India Software Labs.
  Designed and developed and the website for SRA to securely access the SAN Volume Controller (SVC - IBM product) on the customer side without exposing the customer's username and password to the IBM support.
  **Technology & Tools:** C, Java, Flask, Python, AJAX, JS, Make

- **Performance Analysis of Spectrum Scale and HDFS :** Worked on performance analysis of the services like Hive, Hbase over Spectrum Scale and HDFS for various workloads using tools like Teragen, DFSIO, etc.
  **Technology & Tools:** Teragen, DFSIO, GnuPlot

**Project Associate - IIT Madras** **Dec'2012 - Sep'2015**

- **Indo-UK Advanced Technology Centre of Excellence in Next Generation Networks (IU-ATC) :** Worked as Project Associate under the guidance of **Prof Krishna Sivalingam**. The team at IITM works to address the performance issues related to the existing mobile network architectures and design the next-generation mobile networks architectures to increase the quality of user experiences by reducing CAPEX and OPEX cost.

## Sessions and Webinars

- Presented webinar on "Machine Learning from Zero to Hero" at DataPlatformGeeks community
- Speaker in 'Data Platform Day' conducted by DataPlatformGeeks community hosted by Microsoft on 'In depth Machine Learning with Azure Databricks'

## Conferences and Workshops Attended

- IEEE International Conference on Network Softwarization (IEEE NetSoft) held at London (U.K.), April 2015

- IU–ATC Technical Workshop held at IIT Madras (India), November 2014
- IU–ATC Technical Workshop held at BT Adastral Park, Ipswich (U.K.), July 2014
- IU–ATC Technical Workshop held at IIT Bombay (India), February 2014

## Awards and Achievements

- Among top 10 teams in Quality Software Engineering (QSE) Symposium 2016 Hackathon organised by IBM
- Secured **97.83** percentile in **GATE 2011**
- Awarded scholarship by **Govt. of India (MHRD)** at undergraduate level for excellence in **Class XII**

## Course Work

**1. Key Courses** **January 2013 - November 2014**
*Core and electives* *IIT Madras*

- Advanced Data Structures and Algorithms
- Wireless Communication and Networks
- Theory and Applications of Ontologies
- Social Network Analysis
- Mathematical Concepts for Computer Science
- Advanced Computer Networks
- Principles of Programming Languages
- Optimization Methods in Signal Processing and Communication

**4. Labs** **August 2013 - November 2013**
*Core* *IIT Madras*

- Advanced Programming Laboratory

## Skills and Tools

- Languages - **C, C++, JAVA, Python, TeX, Scheme, JSP, Bash**
- Operating Systems - **Windows, Linux**
- Applications and Tools - **Intellij, Teragen, DFSIO, Spring, Oracle JDeveloper, Eclipse, Matlab, Mininet, GNU Radio, OpenLTE**

## Extra - Curricular Activities

- One year music course from **Indira Kala Sangit Vishwavidhyalaya, Khairagarh(C.G.)**

## Declaration

I hereby declare that all the information given above is true to the best of my knowledge as on January 13$^{th}$, 2018.