

# Pawan Kumar

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## EDUCATION

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- **Indian Institute of Technology, Kanpur** Kanpur, India  
*Masters in Computer Science; GPA: 8.33/10* *July 2016 - May 2018*
- **Indian Institute of Technology, Guwahati** Guwahati, India  
*B.tech in Computer Science and Engineering; GPA: 7.80/10* *July 2010 - May 2014*

## SKILLS SUMMARY

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- **Languages:** Java, C, C++, Javascript, Python, SQL, Unix scripting
- **Tools:** Git, JIRA, ElasticSearch, Latex
- **Frameworks:** Android, Scrum, Flask, ReactJS, MongoDB, Hadoop, Hive, Spark, Spring Boot, Hibernate

## EXPERIENCE

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- **Eureka Analytics** Bangalore, IN  
*Software Engineer* *June 2018 - Current*
  - **Data Pipeline for Telco Dataset:** Built tool named “pipecore” which can automate transformation of data from Telco file system to Eureka data format upon which AI engines can run. Built another complementary tool called “sms-scheduler” which enabled creation of whitelist users and scheduled sending sms to end-users for various campaigns.  
Tools/Technology Used: JAVA, HADOOP, OOZIE, HIVE.
  - **Eureka User Profile Store:** Built the User Interface for exploring the Telco Users and target a specific section of users based on various filters. Developed various data visualizations charts based on the dynamic filters selected.  
Tools/Technology Used: REACTJS, ELASTICSEARCH, CHART-JS.
  - **ApiDoc:** Modified the open-source tool called “ApiDoc” to document entire Eureka code-base. It enabled viewing all the public/private APIs in a single place. Tools/Technology Used: JAVASCRIPT.
- **Samsung Research Institute** Bangalore, IN  
*Software Engineer* *June 2014 - July 2016*
  - **Splitbilling:** Devised separate billing system with which system admin can monitor call/sms/data usage for personal and enterprise usage separately through a dashboard.  
Tools/Technology used: PYTHON, MONGODB, FLASK, JAVASCRIPT, BOOTSTRAP.
  - **Email Glue:** Worked on automation of tasks/events creation based on email content and hence enabling zero-inbox policy for Samsung email app. Additionally, developed Google Drive add-on for Samsung Email using which mail attachments can be directly integrated with Google drive.  
Tools/Technology Used: ANDROID, JAVA, DRIVE SDK.

## ACADEMIC PROJECTS

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- **Knowledge Management System:** Developed a fully voice-automated web-application based on Watson APIs which can be trained and queried later. Optionally, the user can provide feedback to the system, which can be used to enhance the results.  
Technology/Tools Used: PYTHON, WATSON SDK, FLASK. (Mar '18)
- **Breaking Ciphers - Cryptology:**
  - Broke 6-round of DES (Data Encryption Standard) by using chosen-plain text attack. Tool Used: C++. (Feb '17)
  - Broke a special case of RSA (where public key is small) for 1024-digit long prime factors. Tool Used: SAGE. (Mar '17)
- **Information Retrieval System:** Developed a text based retrieval system(Mini Search System) for CACM dataset. Preprocessing and Indexing the documents using Trie Tree and TF-IDF as relevance score. Technology/Tools Used: PYTHON, JAVASCRIPT. (Sep '13)

## HONORS AND AWARDS

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- Awarded Merit-cum-means Scholarship at IIT Guwahati for 4 straight years. (2010-14)
- Listed among the top 0.18 % among 500k+ students appearing at JEE. (May '10)
- Awarded Certificate of Merit by CBSE for being among top 0.1% of students in Social Science. (May '08)
- Got first prize in state level essay competition. (May '07)