Shubham Kumar

Senior Year BTech. Student
Computer Science & Engineering
Indian Institute of Technology Patna

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EDUCATION

Bachelor of Technology   *Graduating May,2016*
Computer Science and Engineering
Indian Institute of Technology Patna
Current CPI: **9.83/10**   *Department Rank:* **1ˢᵗ**

Intermediate   *Graduated March,2012*
Central Board of Secondary Education
Delhi Public School, Bokaro Steel City
Percentage: **94.20/100**

Matriculation   *Graduated March,2010*
Indian Certificate of Secondary Education
ST.Xavier's School, Bokaro Steel City
Percentage: **92.15/100**

ACHIEVEMENTS

2014   *Received a congratulation letter from the Director Of IIT Patna for scoring* **10/10 SPI** *in my 3ʳᵈ Semester*
2014   **Topped** *the Institute Merit List*
2012   *Secured All India Rank:* **4651** *in IIT-JEE over 5 Lakh candidates*
2012   *Secured All India Rank:* **4425** *in AIEEE over 14 Lakh candidates*

WORK EXPERIENCE

MAY 2014 – JULY 2014
Indian Institute of Technology Kharagpur
Natural Language Processing

● Worked with **Dr. Soumyajit Dey** to train,profile and decode **Deep Neural Network** based **RWTH Automatic Speech Recognition Toolkit**
● Successfully built an online decoder for the toolkit.
● Worked on Linux Platform with ample knowledge in shell scripting and AWK programming.
● Used VTune Analyzer for profiling.

AUGUST 2014 – OCTOBER 2014
Indian Institute of Technology Patna
Cross Language Information Retrieval

● Participated in Subtask 1 of **FIRE 2014** event organized by Microsoft Research India with **Dr. Asif Ekbal**.
● Adopted a Machine Learning Approach to build an automated system.
● Used Weka Tool for language identification and adopted a joint-noisy channel technique for back-transliteration.
● Came first in Hindi-English Dataset.

MAY 2015 – JULY 2015
Arista Networks, Bangalore
Software Developer Intern

● Completed the Qos-WRED project successfully.
● Completed the design specification, implementation and testing of WRED on the hardware.

ACADEMIC PROJECTS

JAN 2014 – APRIL 2014
Indian Institute of Technology Patna
Software Development – Asara

● Lead the frontend development of **Asara**, an online project management software which manages the progress of the project taken by the team members under a team leader without using email.
● Worked in a group of 5 people under the assistance of **Dr. Samrat Mondal**.
● Web Design & Development Languages used: HTML, CSS,Javascript & Ajax.

APRIL 2014
Indian Institute of Technology Patna
4 Bit Arithmetic Logical Unit

● Designed & developed a 4 bit Arithmetic Logical unit in hard-wired circuitry with 4 basic operations.

SEPTEMBER 2014 – NOVEMBER 2014
Indian Institute of Technology Patna
Android Software Development

● Worked under **Dr. Joydeep Chandra** in a group of 4.
● Developed a Recommender System Android App to extract major interests of the users and and provide them suggestions to join a community of similar minded people.
● Used Collaborative Clustering Algorithm.
● Languages Used: Matlab & Java.

NOVEMBER 2014
Indian Institute of Technology Patna
Web Analytics Using MongoDB

● Used MongoDB aggregation framework.
● Calculated total visits per day, response time, weekly visit patterns, duration of visits of users on the Institute's website using log files.

POSITIONS OF RESPONSIBILITY

NJACK- The computer science club – IIT Patna
Coordinator   *July 2014 - Present*
Main Tasks include organizing Edu-workshops, seminars, events and to coordinate the activities of the club during fests of the college

Entrepreneurship Club – IIT Patna
Task Manager   *July 2013 - April 2014*
Analyzed the Entrepreneurial websites of other IIT's and work accordingly to design a better Entrepreneurial website for our college

EXTRA-CURRICULAR ACTIVITIES

Hackerrank: Actively participate in various contests at international/national/college level & organize various programming contests at college level.