‍‍Sheshant

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Education

* **School Education:**
* 10th ICSE (Indian Certificate of Secondary Education) Board. Institute: St Karen’s High School, Patna. Completed in the Year 2010. Marks : 85% (Aggregate), 92% (Mathematics), 98%(Computer applications)
* 12th All India Senior School Certificate Examination (CBSE) institute: Scholar’s abode, Patna completed in the Year 2012 Marks: 82.6% (Aggregate), 92.33% (PCM)
* **College**: B - Tech in Computer Science and Engineering, Indian Institute of Technology Kharagpur. 2016. CGPA 7.75

SOFTWARE ENGINEERING SKILLS

OPERATING SYSTEM

* Linux, Windows 10, Kali Linux

PROGRAMMING LANGUAGES

* C, C++, JAVA, PYTHON, MATLAB,

SOFTWARES AND LIBRARIES

* Visual Studio 2013, Eclipse, NetBeans, Solid works 2013, Microsoft office 2013 (Excel and PowerPoint), Matlab (or Octave),python-nltk, opencv, python networkx, python matplotlib

DATABASE

* SQLite, MySQL, PostgreSQL, Microsoft SQL server

**ACADEMIC HONORS & ACHIEVEMENTS**

* Was in top 1% of the 500,000 students that appeared for IIT Joint Entrance Examination (IIT-JEE) 2012 secured rank of 1958 and also Secured an All India Rank around 10000 out of 1,100,000 students that appeared for All India Engineering Entrance Examination 2012.

RELATED PROJECTS IN I.I.T. Kharagpur

* **Software engineering –** Along with my lab partner, we made a software named UDIS (University Database Information System). It manages all the stats of the university regarding the grades of student and the list of all the professors and students and also all the projects undertaken by the university.
* **Database Management**- I have done work on database based software for medical diagnostic center as part of my assignment which will keep the record of all medical tests in that hospital. That software maintains a database of each patient and doctor and tests records.
* **Operating system** – [Jan 2015 to Apr 2015]
  + I have done work on semaphores and shared memory on linux based OS Ubuntu. This was part of my assignments.
  + Also I did programming of a mini version of shell.
* **Summer training** - [May 2015 to July 2015]
  + I have done my summer training at Samsung Research Institute Bangalore as an intern for the month of May to July 2015.
  + I was in the multimedia division and my project was based on Image Processing and deep learning and convolutional neural network.
* **Image processing and computer vision** -
  + In the field of computer vision, I have done assignments on basics of image processing and on computation of all parameters of epipolar geometry for a given pair of images and also compute the corresponding wavelength.
  + In the field of image processing, my assignment was based on gathering the images of candies and detecting the fault ones. I have done it in Mat Lab.
* **R.P. HALL open soft** – I was part of R.P. Hall open soft team for the year 2014, 2015, and 2016. In the year 2015 we have done a project on plotting 2D and 3D graph for a given equation of any degree and also to save the plots. In the year 2016 our problem statement was on extracting data from plots. We used tesseract-ocr for text recognition and also used opencv python for extraction of data from colored plots.
* **Btech Project** – My Btech project was on understanding vulnerabilities in wireless network and to understand the need for more security over wlan. I have performed various wireless network based security attacks like spoofing (ARP, DNS, MAC) and also password based attack and denial of service attacks like tcp flood.
* **Information retrieval** – We have done a term project on extracting Wikipedia articles for a given research paper and also print them in most relevant order. We have used nltk library and used various methods like tf-idf and k-gram and compared the result and also took user point of view that which is more relevant.
* **Edelweiss** – I am working on PostgreSQL and migration of data from MySQL database to PostgreSQL.