

SANDEEP KUMAR PANI

13CS30027

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT AT INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

sandeepkumarpani888@gmail.com

+91-9874262606

EDUCATION

2013-2018 (EXPECTED)	B.Tech and M.Tech (Dual Degree) in COMPUTER SCIENCE AND ENGINEERING Indian Institute of Technology , Kharagpur CGPA: 8.43/10.0
2013	Class XII, CENTRAL BOARD OF SECONDARY EDUCATION (CBSE) MP and EV School , Visakhapatnam SCORE: 95.8%
2011	Class X, CENTRAL BOARD OF SECONDARY EDUCATION (CBSE) Delhi Public School , Siliguri GPA: 10.0/10.0

SOFTWARE PROJECTS

May-June 2016	Software Engineer Intern at Microsoft India Development Centre <ul style="list-style-type: none">- Part of the Azure Site Recovery team, which aims to provide consistent apps, workloads and data during planned and unplanned downtime or disasters, and to recover to normal working conditions (Disaster Recovery).- As part of the team, I was responsible for helping provide Disaster-Recovery support for AWS cloud environment from the ground up. Worked extensively with Amazon EC2 instances and Azure, and was able to integrate the project on their current stack. Implemented several proof of concepts and investigation phases to help keep the system in a consistent state.- Have been offered a Full-Time position on the basis of the work done.
April 2016	SELENE Guide: Professor Pabitra Mitra <ul style="list-style-type: none">- An android app that serves as a social music recommendation engine using Facebook's graph API, YouTube's API and Musixmatch's API giving more priority to music listened to by your close friends.- Link: Selene
Feb 2016	STUDIOUS STUDY + DISCOVER Guide: Professor Pabitra Mitra <ul style="list-style-type: none">- A complete course management system built upon MEAN stack, and supports major features like Assignment and Tutorial submission and auto-evaluation, notifications to every student and a chat system for students and faculty.- Messages and real time notifications were implement using socket.io and supports 4 distinct type of users: students, faculty, parent and administrator.- Link: STUDIOUS
April 2016	Retriving salient sentences from Reddit AMAs Guide: Professor Pawan Goyal <ul style="list-style-type: none">- Built a web-based summariser that provides summaries from /r/iAMA . After obtaining the data from the web crawler, LDA model training was done on the entire dataset and categorised using link flairs on Reddit. k-mean clustering was then used to cluster the questions and answers. Concept tagging was then done using Alchemy API on each cluster.- Link: Information Retrival Project
Feb 2015	Hall Management System Guide: Professor Partha Pratim Das <ul style="list-style-type: none">- Built a hall management system using MySQL and Java frontend which automates the process of managing various aspects of hall related activites like hall and room allocation, staff management and general overview of expenditure to name a few.

COMPETITIONS

March-April 2016	Data Extractor from 2D plots OpenSoft 2016 <ul style="list-style-type: none">- Worked on a team of 15 as a part of my hall team in OpenSoft 2016 to build a graph extractor that detects graphs in any PDF and plots the values in a tabular format.- Was responsible for extracting the graph from the pdf document and scale of the axes.
Jun 2015	Angel Hacks <ul style="list-style-type: none">- Took part in Angel Hacks Delhi, a 24 hour hackathon, where my team built AppoloX, a context sensitive app which understands the context of the text and recommends accordingly. We used node.js, brain.js and the Android Platform.- Link: ApolloX
Mar 2015	Code.Fun.Do <ul style="list-style-type: none">- Built an app to help people with their therapy plans using KINECT to check the movement of joints and voice prompts to correct the movements during the Microsoft Code.Fun.Do Hackathon

SPORT PROGRAMMING

- ACM-ICPC Onsite Regionals **Rank-63** (Team Event)
- Member of Team yeah_u_wish, one among 25 teams all over india selected for KTJ coding event OVERNITE and secured **17th position** there.
- Member of Team i_weep and secured an **international rank of 51** in the online coding contest BITWISE(2015) organised by the Department of Computer Science and Engineering, IIT Kharagpur.
- Regular on codeforces as [renegade_warrior](#)

COMPUTER SKILLS

PROGRAMMING LANGUAGES | C, C++, Java, Python, AngularJS

SOFTWARE PACKAGES | Visual Studio, Eclipse, Codeblocks

FRAMEWORKS | MEAN stack

COURSEWORK

(T)HEORY AND (L)ABORATORY

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| <ul style="list-style-type: none">- Programming and Data Structures (T/L)- Algorithms-I (T/L)- Discrete Structures- Software Engineering (T/L)- Formal Languages and Automata Theory- Algorithms - II- Compilers (T/L) | <ul style="list-style-type: none">- Computer Organisation and Architecture (T/L)- Matrix Algebra- Database Management Systems (T/L)- Operating Systems (T/L)- Computer Networks (T/L)- Information Retrieval- Speech and Natural Language Processing |
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SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank - 479 in **IIT JEE- ADVANCED 2013**.
- Secured All India Rank - 416 in **IIT JEE-MAINS 2013**.
- Secured the **KVPY Scholarship**.
- Qualified for the second level in **Indian National Physics Olympiad**.

EXTRA CURRICULAR ACTIVITIES

- Member of National Social Service
- Kshitij volunteer during the main event KTJ 2014