Swapnil Das

Sophomore B.Tech student

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Academic Details

2015–2019 **Bachelor Of Technology In Computer Science Engineering**,
Indian Institute of Technology Delhi, *CPI – 8.588.*

2015 **CBSE AISSCE**, *Hope Hall Foundation School, Delhi*, *Percentage – 95.8%.*

2013 **CBSE AISSE**, *Jawahar Navodaya Vidyalaya, Assam*, *CPI – 10.*

Relevant Courses

Computer Science: Data Structures and Algorithms, Discrete Mathematics, Digital Logic and System Design, Introduction to Computer Science, Programming Languages*, Computer Architecture*, Design Practices*.

Mathematics: Probability and Stochastic Processes, Calculus, Linear Algebra and Differential Equations.

Electrical: Introduction To Electrical Engineering, Signals & Systems*.

Online: Introduction to Computer Networking(Stanford), Parallel Programming(EPFL), CS50(Harvard).

*Courses to de done by summer 2017.

Course Projects

August - Present **Mobile Phone Tracking**, *Under Prof. Amitabha Bagchi*, CSE, IIT Delhi.
- Developed a multithreaded model in Java to replicate real life mobile tracking in a area.
- Analysed the Two-way-Radio system of connection.

July - August, 2016 **Multithreading Stock Exchange**, *Under Prof. Amitabha Bagchi*, CSE, IIT Delhi.
- Implemented a mutithreaded model of stock exchange and profit is calculated using 3 different threads.
- Data from a file was processed but in real time using threads.

Independent Projects

May - July, 2016 **Peer-to-peer networking**, *Python*, Sockets, Link - https://github.com/swapnil96/P2P-chat.
- Created a P2P service where multiple clients log into a central server and eventually connect to other clients.
- Server authenticates and manages multiple chat sessions.
- Analysed crowding and high bandwidth consumption in network by connecting 8 systems simultaneously.

April - May, 2016 **Applications of Brute Force Technique**, *Python*, Link - https://github.com/swapnil96/Brute-Force.
- Implemented Backtracking alogrithm to solve Peg-soltaire, Sudoku solver, Magic-square finder.
- Measured the limit of brute force on a system of 2.4Ghz Intel i7 quad core processor.

Technical Skills

Languages: Python, Java, C++, C, VHDL, HTML, CSS3, MySql, Javascript

Frameworks: Bootstrap, Django, JQuery, Socket, TKinter, Web2Py

Softwares: GIT, Xilinx ISE suite, Autodesk Inventor, Android Studio, Visual Studio, LaTeX, MS office

Scholastic Achievements

2015 Secured **All India Rank 2666**(category-**28**) in JEE-Advance, 2015 among **0.15 Million** candidates.

2015 Secured **All India Rank 1728**(category-**17**) in JEE-Main 2015 among **1.4 million** candidates.

2015 Awarded Scholarship of Merit by CBSE for being in **top 25 among 1 Million** in AISSCE.

2014 Selected as **(KVPY)** scholar under 'Kishore Vaigyanik Protsahan Yojana' given to top 1% conducted by **IISc** Bangalore and **Govt. of India.**

2013 Awarded Scholarship of Merit by CBSE for being in **top 27 among 1.3 Million** in AISSE.

2013 Selected as Dakshana scholar for qualifying in GDST conducted by **HRD ministry Govt. of India**.

2012 Qualified **Regional Mathematics Olympiad(RMO)** and appeared in **Indian National Mathematics Olympiad(INMO)** conducted by **Homi Bhabha Centre for Science Education(HBCSE)**.

Extra Curricular Achievements

Programming Contest

Jan 2016 **Microsoft Code.Fun.Do Hakathon** - Runners up. Created a game in Visual Studio using C#

July 2016 **Microsoft Finalist Forum** - Participated online and completed 1st round.

April 2016 Qualified Google Code Jam qualifying round.

Others

2012 Regional Badminton Player from JNV under Shillong Region.

2002 - 2009 Completed a 7 year course in Fine – Arts.

Position of Responsibility

2016-17 Website executive of eDC team, IIT Delhi.

2016-17 Activity Head in TRYST(Annual technical festival) 2017 of IIT Delhi.