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 Data Structures and Algorithms, Discrete Mathematics, Digital Logic and System Design, Introduction

Science 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

September - Search Engine by Inverted Search Index, Under Prof. Amitabha Bagchi, CSE, IIT Delhi.

present • Developed a search engine model in Java using Inverted Search Index.

• Summation of 1/(square of the indexes) where words appeared, was used to calculate relevance.

August - Mobile Phone Tracking, Under Prof. Amitabha Bagchi, CSE, IIT Delhi.

September, • Developed a multithreaded model in Java to replicate real life mobile tracking in a area.

2016 $\,$ \circ Analysed the Two-way-Radio system of connection.

July - Multithreading Stock Exchange, Under Prof. Amitabha Bagchi, CSE, IIT Delhi.

August, 2016 • 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, Peer-to-peer networking, Python, Sockets, Link - https://github.com/swapnil96/P2P-chat.

2016 • 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, Applications of Brute Force Technique, Python, Link - https://github.com/swapnil96/Brute-Force.

 $2016~\circ$ 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

- 2013 3rd place in Intra District debate competition.
- 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.

References

Rupam Barman, IIT Guwahati, Assam, rupam@iitg.ernet.in., Associate Professor in Mathmetics department IIT Guwahati..