Ankit Salvi

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EDUCATION

IIT KANPUR
B.TECH. IN COMPUTER SCIENCE
Expected July 2019

ST. ANTHONY'S SCHOOL
12TH CBSE
Cum. Percent: 94.8

ST. ANTHONY'S SCHOOL
10TH CBSE
Cum. GPA: 10/10

LINKS

LinkedIn:// **ankitsalvi**

COURSEWORK

UNDERGRADUATE

Data Structure and Algorithms
Compiler Design, Operating Systems
Database Management systems
Theory of computation , Information Retrieval , Algorithms 2
Logic in Computer Science
Introduction to Machine Learning
Probability and Statistics
Discrete Mathematics , Linear Algebra
Computer Network

SKILLS

PROGRAMMING

Java • C++ • JavaScript • Python
Tools
Vim • Git • Octave • flex • bison • LaTeX
Platform
Windows • Linux •
Familiar:
HTML • CSS • MIPS Assembly • Verilog • MySQL • PHP

ACHIEVEMENTS

ACADEMIC

• Attained 99.62 percentile in JEE Mains 2015 among 13.03 lakh aspirants.
• Attained 96.80 percentile in JEE Advanced 2015 among 1.52 lakh aspirants.
• Secured 9th Position in Rajasthan in 1st Stage of National Talent Search Examination
• Recipient of NTS Scholarship by NCERT.

EXPERIENCE AND PROJECTS

SAMSUNG | SOFTWARE ENGINEERING INTERN
May 2018 – Jul 2018 | Delhi, India

- Learned in details about Wifi and Mesh Networking.
- Understood in-depth wpa—supplicant, which is an open source implementation of Wifi Mesh protocol.
- Explored interprocess communication Technologies and wrote code using them.
- Using the above learnings, developed a commercial application to manage Mesh Networking which included all the basic functionalities.

COMPILER FOR JAVA | PROF. SUBHAJIT ROY
Jan'18 - Apr'18

- Developed a Compiler for a subset of Java for x86 architecture.
- Used flex and bison to obtain an AST, which is later translated to a x86 assembly.
- Constructed rules for converting Java code to Three Address Code.
- Gave support of all the Arithmethic operations, conditional statements, Iterative statements, Basic function handling, single return values and scope handling.

PROJECT OPERATING SYSTEM | PROF. MAINAK CHAUDHARI
Jan'18 - Apr'18

- Implemented System calls pertaining to Fork, Exec, Join, Sleep and Exit
- Implemented UNIX, First in First Out, Round Robin and Shortest Job First job scheduling algorithms
- Implemented Shared Memory, Condition variables and Demand Paging.

LANGUAGE INDEPENDENT STEMMER | PROF. ARNAB BHATTACHARYA
Jan'18 - Apr'18

- Implemented the PLIS algorithm and significantly improvised its running time by caching.
- ested it with Bengali, Hindi and English.
- Compared it with GRAS stemmer and results were found to be better in some cases

ENCODING OF HANDWRITTEN MATHEMATICAL EXPRESSIONS TO LATEX MARKUP | PROF. PIYUSH RAI
Aug'18 – Nov'18

- Reviewed the methods and libraries already in use for the encoding of the letters
- Converted the segmented image of the mathematical expression into a segmented tree to get spatial information.
- Used a CNN on every node of the segmented tree to obtain the final expression tree.
- Tried zero shot learning using various similarity measures to detect and predict unseen symbols in expressions

CHATROOM APPLICATION | PROF. DHEERAJ SHANGHI
Aug'18 – Nov'18

- Designed and implemented a chatroom application using with support for audio, video as well as text chat.
- Used Handelbars.Js, Node.Js, SimpleWebRTC and Socket.io for the backend applications.