Abhimanyu

Third Year Undergraduate Computer Science And Engineering Indian Institute of Technology, Kanpur

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EDUCATION

April 2019	B.Tech (Computer Science and Engineering)	IIT KANPUR	8.2/10.0
April 2015	Class XII(Central Board For Senior Education)	DPS Hisar	96.20%
April 2013	Class X(Central Board For Senior Education)	NIS,Hisar	10.0/10.0

ACADEMIC ACHIEVEMENTS

- Secured AIR-189 in JEE(Advanced)2015 among 1.5 lakh students.
- Secured AIR-245 in JEE(Mains)2015 among 13 lakh students.
- Selected for the prestigious KVPY scholarchip, in stream SX.
- Certificate of merit for being among top 0.1% in the country in XII mathematics by CBSE.

OTHER ACHIEVEMENT

• Secured Third position in 5th Inter IIT Tech Meet in Indoor Localisation among 10 competing IITs.

PROJECT

• C# Compiler(Compilers Course Project)

Jan'18-Present

(Mentor: Professor Shubhajit Roy)

- Implementing a C# to MIPS compilers in C.
- Supports higher level constructs like **structs**, **arrays** and **switch**.

• NachOS Extension(OS Project)

July'17-Nov'17

(Mentor: Professor Mainak Chaudhary)

- Extended basic **NachOS** to a fully grown operating system.
- Implemented fork, join, sleep, exit and other system calls.
- Tested First come First serve(FCFS), Shortest Remaining Job First (SRJS) and Round Robin(RR) scheduling algorithms.

• Securing Zoobar Server(Security Course Project)

Jan'18-Present

(Mentor: Professor Sandeep Shukla)

- Found various security vulnerabilities in the server code.
- Exploited vulnerabilities using control hijacking techniques like buffer overflow, format string attacks and ROP.
- Performed various browser-based attacks like **SQL** injection, **XSS**, **CSRF** on Zoobar web application.
- Fixed security bugs in web server, implemented privilege separation and server-side sand-boxing
 of executable profiles in the okws server.

OTHER PROJECTS

TECHNICAL SKILLS

Programming Languages (Proficient): Programming Languages (Familiar):

C, C++, Python PHP, Javascript, Java, x86

INTERESTS

Computer Architecture	Operating Systems	Computer Security
RELEVANT COURSES		
CS422: Computer Architecture* ESO207: Data Structures and Algorithms CS628: Computer Systems Security* CS771: Introduction to Machine Learning 1 *-Ongoing Courses	CS220: Computer Organisation CS340: Theory of Computation CS315: Principles of Database Systems	CS330: Operating Systems CS345: Algorithms II CS335: Compilers Design*

EXTRACURRICULAR ACTIVITIES AND EVENTS

- ullet Developed a server based and roid app to store medical history of the user in Google Devfest-2016 organized by E-cell
- Participated in Robotricks in the inter-hall event Takneek-2015.
- Pursued skating as my CPA(Compulsory Physical Activity) in my 1st year being the Captain.