

# Nishit Majithia

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## EDUCATION

- 2015–Current **M.Tech Computer Science & Engineering, IIT Kanpur.**  
CPI - 7.71/10 after 2 semester
- 2010–2014 **B.Tech Computer Science & Engineering, Charusat University, Gujarat.**  
CPI - 8.73/10
- 2010 **Class XII(Science), Shree Satya Sai School, Jamnagar.**  
Major - 88.3%  
Overall - 78.20%
- 2008 **Class X, Shree Satya Sai School, Jamnagar.**  
Overall - 90.77%

## INTERNSHIP

- June–August 2016 **SAMSUNG Research & Development Institute, Delhi, (Team of Two).**  
Implemented **Client Honeypot** and Honeypot Server under Security Team SRI-Delhi.  
Presented a idea of modifying Client Honeypot to integrate it with Tizen TV Kernel, in order to create a sandboxed environment for browser. That is useful for browser to classify a particular website as malicious or benign.  
The Client Honeypot was capable enough of identifying malwares that tries to access or modify file system or process tree of underlying operating system.  
The Server Honeypot could successfully able to log all the activities of attacker, logged on to virtual ssh port.
- January–May 2014 **Charusat Space Technology Center (Collaborated with ISRO), Ahmedabad, (team of two).**  
Guide: **Dr. S.P.Kosta (Former Group Director ISRO-Bangalore, Chief Scientist at CSTC)**  
Implemented a payload called “Wireless Sensor Network” for **IMS1A** satellite. Configured and programmed a ZigBee devices for communicating with all sensors available in satellite wirelessly to transfer control signals received from earth.

## PROJECTS

- January–April 2016 **Finding the Security Flaws in Zoobar Web Server, Classroom Project, Individual.**  
Guide: **Dr.Sandeep Shukla**  
This project aimed for finding the security flaws in Zoobar webserver developed by MIT and STANFORD for academics.  
**Security areas explored:** BufferOver-flow attacks, CSRF and XSS, Sql Injection, Code Penetration, Bugs in privileges separation, Code verification using Symbolic Execution etc.
- July–November 2015 **Intrusion Detection System, Classroom Project, Team of Two.**  
Guide: **Dr.Sandeep Shukla**  
In this project we have implemented IDS such that user's command pattern will be matched with original user's pattern using graph matching technique and find out if the user is intruder or not.
- January–April 2016 **WiFi Analyzer for TIZEN based Products, Classroom Project, Team of Two.**  
Guide: **Mr.Nitin Jhanwar(Samsung)**  
Created a service daemon for TIZEN TV that analyses the WiFi Access Points, connect to one specified & transfer the file to a Host via Connected AP.  
A supplement GUI front end to display the ongoing activities to screen.

- January–April 2016 **Object Detection & Behavioral Learning**, *Classroom Project*, Team of Three.  
 Guide: [Dr.Harish Karnick](#)  
 Worked on development of the model for object detection (specifically Bicycle detection) using DPM (Discriminatively trained Parts based Model) and over the top of that model, the idea is to understand the behavior of human cycling using Kalman Filters.
- July–November 2015 **Skyline Algorithm for Distributed Networks**, *Classroom Project*, Team of Two.  
 Guide: [Dr.Arnab Bhattacharya](#)  
 The project involves Skyline Query processing in Distributed Environment. Given a large data set, it is inefficient to process all data items sequentially one by one. Therefore we propose a simple method to perform the Skyline query on large data sets using distributed systems.

## RESEARCH

- January 2016–Current **M.Tech Thesis**.  
 Working with [Dr.Sandeep Shukla](#) to build an intelligent research **Honeypot for IIT Kanpur** Application and Web-hosting servers. Also the major idea is of securing Honeypots in order to make it undetectable by Advance Attackers.

## COMPUTER SKILLS

- Familiar JavaScript, PHP, MySQL, SHELL, MatLab, Embedded(Arduino) Programming,  $\text{\LaTeX}$   
 Intermediate Java, Python  
 Advanced C/C++

## POSITION OF RESPONSIBILITY

- May 2016 **Instructor of “Introduction to C/C++” Course**, *IIT Kanpur*.  
 Nominated by CSE Dept as one of the two Instructors for the course.  
 Managed a class of around 40 students with regular assignments, quizzes and lab sessions.
- 2016–2017 **Coordinator ACA**, *IIT Kanpur*.  
 One of the two coordinators amongst PG-Y15 batch. Instrumental role in organization of ACA summer School-2016 and Freshers for Y16.
- 2016–2017 **Coordinator INFOSEC(System Security Group)**, *IIT Kanpur*.  
 Organized System Security related lectures, workshops and CTF for IITK junta.  
 Organized “Crypto” event in Takneek-2016.

## ACHIEVEMENTS

- 2015 AIR 476 in GATE for Computer Science.
- 2013 University Second Rank in 2<sup>nd</sup> year B.Tech.
- 2010 School Merit Scholarship for being in top in X grade.

## EXTRA-CURRICULAR

- 2016 **EasyChair** Reviewer for a paper based on IDS of conference **ICISS 2016**.
- 2014–2015 More than 10 ZigBee and network related projects on freelancing website.
- 2014 **EventManager** at National level Techfest Cognizant 2014, CHARUSAT.