Nishit Majithia

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EDUCATION

• **IIT, Kanpur**
M.Tech. Computer Science Engineering
Expected June 2017 | CPI: 7.71

• **Charusat University at Anand, Gujarat**
B.Tech. Computer Engineering
June 2014 | CPI: 8.73

• **Satya Sai High School at Jamnagar, Gujarat**
X and XII(Science) Grade
June 2008 and June 2010
X-90.77%
XII(Major)-88.3% | XII(Overall)-78.20%

ACHIEVEMENTS

• **AIR 476** in GATE 2015
• **University Second Rank** in 2nd year B.Tech
• **School Merit Scholarship** for being in top in X grade

EXTRA CURRICULAR

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

SKILLS

Over 6000 lines:
C• C++
Over 3000 lines:
Java• Python
Familiar:
JavaScript •PHP •MySQL •SHELL •MatLab •Embedded(Arduino) Programming •LaTeX

RESEARCH

• **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.

POSITION OF RESPONSIBILITY

Instructor of "Introduction to C/C++" course in ACA Summer School | IIT Kanpur - May2016 | Team of Two
• Independently managed a class of around 40 students with regular assignments, quizzes and lab sessions.

Coordinator ACA | IIT Kanpur - session 2016-2017
• Instrumental role in organization of ACA summer School-2016.

Coordinator InfoSec(System Security) Group | IIT Kanpur - session 2016-2017
• Organized System Security related lectures, workshops and CTF.

INTERNSHIPS

Samsung Research & Development Institute
June2016 - Aug2016 | Delhi | Team of Two
HoneyPot And HoneyClient Implementation with An Idea to extend the Framework for Sand-boxing Applications for TV Platforms running Linux kernel.

Charusat Space Technology center (Collaborated with ISRO)
Dec2014 - May2014 | Ahmedabad | Team of Two
Guide: Dr. S.P.Kosta(Former Chairperson ISRO-Banglore, Chief Scientist)
Implemented a payload called "Wireless Sensor Network" for **IMS1A ISRO satellite**.

PROJECTS

Finding the security flaws in Zoobar Web server
Jan2016-April2016 | Classroom Project | Individual
Guide: Dr. Sandeep Shukla
Finding the security flaws in Zoobar web server. Security areas explored: Buffer Over-flow attacks, CSRF and XSS, Sql Injection, Code Penetration, Privileges separation etc.

Wi-Fi Analyzer for Tizen based Products
Jan2016-April2016 | 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.

Object Detection and Behavioral Learning
Jan2016-April2016 | Classroom Project | Team of Three
Guide: Dr. Harish Karnick
The model for object detection (specifically Bicycle detection) using Discriminitively trained Part based Model. Approach for extending Kalman Filters to understand cycling behavior.

Intrusion Detection System
July2015-Nov2015 | Classroom Project | Team of Two
Guide: Dr. Sandeep Shukla
Implemented IDS, by tracking user's command pattern and comparing it with actual user's pattern, Using graph matching technique, so as to identify an Intruder.

Skyline Algorithm for Distributed Networks
July2015-Nov2015 | Classroom Project | Team of Two
Guide: Dr. Arnab Bhattacharya
Proposed a method to perform the Skyline query on large data sets using distributed systems.