

Naman Gupta

2013064, naman13064@iiitd.ac.in

DOB: Nov, 27th 1994

Address: D 1002, Mahindra Splendour, Bhandup West, Mumbai, Maharashtra, 400078



Education

Indraprastha Institute of Information Technology – Delhi
B.Tech (CSE)

2013 - present

Hans Raj Model School, New Delhi
CBSE

2011 - 2013

Hans Raj Model School, New Delhi
CBSE

2001 - 2011

CGPA
8.15/10
(till 7th Semester)
Percentage: 90.94 %

CGPA:
9.6/10

Skills

Expertise Area Application Development, Security, Network Administration, Systems Programming

Programming Languages Python, C, C++, Java, JavaScript, C#, Shell Scripting, Assembly

Tools and Technologies Android, Unity, Django, Git, SQL, NodeJS, Flask, Ruby on Rails, MATLAB, AngularJS, Ionic

Technical Electives Advanced Networks, Internet of Things, Network Security, Security Engineering, Program Analysis, System Administration, Network Administration, Applied Cryptography, Image Analysis, Modelling Complex Systems, Mobile Computing, Web Development - Coursera

Internships

Software Development Intern (Industrial)

Guide: Dr. Abhishek Jha, Sabu George, Swetabh Pathak, Elucidata Corporation

Worked on improving an open-source tool (by Rabinowitz Lab, Princeton University) for pre-processing metabolomics data to enable faster drug discovery. The aim was to create a CLI version, reduce memory consumption and fix loopholes in algorithms for peak picking of data to ease analysis pipeline, with scientists as the end-users.

May, 2016 - July, 2016

Team Size: 4

Injecting Reality into VR: a Turing test of Virtual Crowds (Research)

Guide: Dr. Suchit Butail, Assistant Professor, IIIT-Delhi

Studied pedestrian dynamics and inter-human interaction as a complex system. Simulated the complex behavior in a Virtual Environment using Unity, Google Cardboard and Kinect. The work was demonstrated as a paper, currently under review in **IEEE Virtual Reality** conference.

Apr, 2015 - July, 2015

Team Size: 2

JobPort Placement Software (Industrial)

Guide: Mrs Rashmil Mishra, Placement Cell

Open-sourced a Django based web portal for intuitive placement management at IIIT Delhi. The platform was built from scratch, work involved back-end development, server deployment and front end development.

May, 2014 - Nov, 2015

Team Size: 1

PowerDown Challenge (Community Work)

Guide: Dr. Amarjeet Singh, IIIT Delhi

Spread awareness through offline and online data visualizations about electricity consumption in IIIT Delhi as a part of MTech thesis of a student. The data was extracted from energy portal (collecting data from Smart meters) to visualize the statistics.

June, 2014 – Sep, 2014

Team Size: 5

Projects

A firewall for the Internet of Things (B. Tech Project)

Guide: Dr. Vinayak Naik, Assistant Professor, IIIT Delhi

Implemented a firewall-based framework to detect and prevent DDoS attacks on Internet of Things devices.

The work has been published as a poster in the **COMSNETS 2017 Poster Session**.

Aug, 2016 -

Present

Team Size: 2

Volume Sculptor in Virtual Reality (Computer Graphics)

Guide: Dr. Ojaswa Sharma, Assistant Professor, IIIT Delhi

The aim of the project is to create a tool allowing creation of objects with accurate surfaces in a Virtual

Environment, with hands of the creator being tracked using a Leap Motion.

Jan, 2016 - June,
2016

Team Size: 2

AirDraw (Image Analysis)

Guide: Dr. Mayank Vatsa, Assistant Professor, IIIT Delhi

Implemented a proof of concept to track hand gestures enabling painting using hands in front of a laptop webcam.

Nov, 2015

Team Size: 2

Gourmet Pados Mein - Local Food sharing Android App (Mobile Computing)

Guide: Dr. Vinayak Naik, Assistant Professor, IIIT Delhi

Developed a cloud based android app to boost local home-cooked food discovery. Received highest marks and A grade for being an exceptional project.

Oct, 2015 - Nov,
2015

Team Size: 5

Stanford HCI Crowd Research Project

Guide: Dr. Michael Bernstein, Professor at Stanford University

As a member of the Stanford Crowd Research Collective, I worked on research on present freelance marketplaces to drive the design of the Open Source platform - Daemo.

Feb, 2015 -

June, 2015

Cloud Server - Xen (Systems Administration)

Guide: Dr. Vinayak Naik, Professor, IIIT Delhi

Configured a cloud server with Citrix XenServer using a small cluster of computers (and VMs) having dynamic memory allocation. The intention was to reduce power consumption and cost for idle servers and VMs in IIIT Delhi.

Oct, 2014 - Nov,
2014

Team Size: 2

Foosball Game - Java using Swing API (Advanced Programming)

Guide: Dr. Manish Shrotriya, Assistant Professor, IIIT-Delhi

Developed a Java application for AI based foosball game using Swing covering most of the design principles/patterns and OOP concepts.

Oct, 2014 – Dec,
2014

Team Size: 5

'Glowing Hostel' - Django and three.js (Environmental Science)

Guide: Dr. Suresh Jain, Visiting Professor, IIIT-Delhi

Web-based tool to visualize energy consumption as a 3D model using data from Smart Meters in IIIT Delhi.

Mar, 2015 – Apr,
2015

Team Size: 9

Positions of Responsibility

Coach, Rails Girls Summer of Code - worked on the python based VOC project.

July, 2016

Teaching Assistant - Mobile Computing, IIIT Delhi and NPTEL

Nov, 2016

Teaching Assistant - DSA and Systems Programming, Refresher module for M.Tech'15

July, 2015

Organizing Team, Odyssey'14, Esya'14, Odyssey'15, Esya'15; Organizing Head, Overnight Hackathon, Esya 14 and many other Byld events; Head, Website Design Team, Odyssey 2015

Awards and Achievements

Conducted Lectures as a part of Byld HackNight on "**Intro to MVC using Django**" and "**Web With NodeJS**".

Participated in various Hackathons in Delhi, and winner of in-house CTF event.

Represented Delhi, DAV Nationals, Football

Nov, 2010

Interests and Hobbies

Sports, travelling, pen-testing, graphic designing, philosophy, literature, psychology.