Naman Gupta

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Work Experience

Summer 2016 | Software Development Intern at Elucidata Corporation, Delhi

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.

Summer 2015 | Research Intern at IIIT Delhi Research Publication

A Priming approach to increase participant engagement in virtual crowds
Studied pedestrian dynamics and inter-human interaction as a complex system. Simulated the complex behaviour in a Virtual Environment using Unity, Google Cardboard and Kinect. The work was demonstrated as a paper, accepted in the Virtual Humans and Crowds for Immersive Environments workshop, IEEE Virtual Reality conference 2017, Los Angeles.

Summer 2014 | Developer Intern at IIIT Delhi JobPort Placement Software

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.

Fall 2014 | Community Work at IIIT Delhi PowerDown Challenge

Spread awareness through offline and online data visualisations 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 visualise the statistics.

Education

May 2017 Bachelor of Technology in Computer Science, IIIT Delhi
CGPA: 8.15/10 | Till 7th Semester

Skills

Expertise	Linux, Software Development, Security, Systems Programming, Maths
Programming	Python, C, C++, Java, JavaScript, Shell Scripting, Assembly
Tools	Android, Unity, Django, Git, SQL, NodeJS, Flask, MATLAB
Courses	Networks, Internet of Things, Network and Systems Security Program Analysis, Systems and Network Administration, Cryptography Image Analysis, Modelling Complex Systems, Mobile Computing

Responsibilities

2016	**Teaching Assistant**, Mobile Computing
2015	**Teaching Assistant**, DSA and Systems Programming, for M.Tech'15
2014 -2016	**Organising Team**, Esya and Odyssey fests in IIIT Delhi
2016	**Coach** for team working on PyBee VOC project, Rails Girls Summer of Code

Interests and Activities

Open-Source, Psychology, Philosophy, Football, Travelling, Pentesting, Graphic Designing

Projects

2017 | A firewall for the Internet of Things with Dr. Vinayak Naik

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.**

2016 | Volume Sculptor in Virtual Reality with Dr. Ojaswa Sharma

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.

2015 | AirDraw with Dr. Mayank Vatsa

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

2015 | Gourmet Pados Mein with Dr. Vinayak Naik

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

2015 | Stanford HCI Crowd Research Project with Dr. Michael Bernstein

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.

2014 | Cloud infrastructure with Dr. Vinayak Naik

Set up an experimental virtualization environment using Citrix XenServer.

2014 | Foosball Game with Dr. Ojaswa Sharma

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

2015 | Glowing Hostel with Dr. Suresh Jain

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