Hemanshu Sondhi

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EDUCATION

- **Indian Institute of Technology (BHU)** — Varanasi, India
  *BTech. in Computer Science and Engineering ; CGPA: **8.83*** — *July 2014 – Current*

PROGRAMMING SKILLS

- **Languages**: C, C++, Python, JavaScript, SQL, HTML, Java(Basic)

- **Technologies**: MySQL, Github , Linux Command Line, Eclipse, Arduino, Django framework, Git, Raspberry Pi, MongoDb, AngularJS, Selenium, SaltStack, Docker

EXPERIENCE

- **Nutanix Software India Pvt. Ltd.** — Bangalore, India
  Member of Technical Staff Intern — *May 2017 - July 2017*
  - **VM Migration and UI Automation**: Added features in the SQL Mover product(**VM Migration**) of Nutanix. Developed UI Automation test using Selenium in java. Exposure: **Selenium, SaltStack, Docker**

- **Sunsure Energy Pvt. Ltd.** — Delhi, India
  Research & Development Intern — *May 2016 - June 2016*
  - **Scada Monitoring System**: Developed a scada monitoring system for solar inverters using microcontrollers and a dashboard using django. Exposure: Microcontrollers, django, **Amazon services, databases**

- **Medoboss Pvt. Ltd.** — Varanasi, India
  Intern — *August 2015 October 2015*
  - **Company Dashboard Modules**: Created various modules for the dashboard using **AngularJs** and **Mongodb**. Used the **Google Map API** to get the location, created a dynamically changing forms and a **search filter** to get city.

PROJECTS

- **Detection of DoS Attacks in SDN** — January 2017 - Current
  Dr. Hari Prabhat Gupta — *IIT(BHU) Varanasi*
  - Implemented a **Software Defined Network** virtually as well as on real hardware of northbound switches.
  - Used an Entropy detection technique and a machine learning approach to detect a **Denial of Service(DoS)** attack on a Software Defined Network.

- **Pixelate** — March 2015
  Technex 2015 — *IIT(BHU) Varanasi*
  - Made an autonomous robot using **arduino** that runs on a given map using image processing using matlab.
  - Calculates the shortest path using **dijkstra** shortest path algorithm.

- **Health Keep** — January 2017
  Microsoft Hackathon
  - A Windows application that notifies a user of diseases spreading in his locality and precautionary measures to be taken based on diseases spreading. Clusteres are formed on the basis of location of cases reported and their location.
  - Uses **k-means clustering** to form clusters based on the reported cases locations and data supplied by doctors.

- **Simul Download** — November 2017
  - Application that aims to maximize bandwidth by simultaneously downloading different parts of an online file by using multithreading.
  - Cancatenation of different parts into a single file by applying file operations.

ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

- Secured **73 (<3%)** rank in 3000 teams from all over India in the **ACM-ICPC 2017 Regionals India** round.
- Got an **A* grade(for highest score)** in Data Structures subject in the Btech course.
- Awarded **222 rank (<1%)** under SX General Merit List for **KISHORE VAIGYANIK PROTSAHAN YOJANA (KVPY) Fellowship-2013** conducted by Indian Institute of Science, Bangalore, India.
- Coordinated a team of **12 members** for **Capture the Flag(CTF)** event under ByteTheBits category of Technex 2016-17.