TARUN BATRA

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CAREER OBJECTIVES:

Senior engineering undergraduate with skills in programming and keen to work on research projects. Aiming to contribute to and be an active member of the open source community.

EDUCATION:

COURSE	INSTITUTION	UNI / BOARD	YEAR OF PASSING	CGPA/PERCENTAGE
B.Tech (CSE)	SRM Institute of Engineering and Technology	SRM University	2016	8.6*
12th	Woodlands Overseas School	CBSE	2012	82%
10th	Baba Manjh Convent School	CBSE	2010	9.4

3rd, 4th,5th and 6th semesters

AREAS OF INTEREST:

Programming, Web Development, Anonymity Networks

EXPERIENCE:

- *On-Board Computer Engineer, SRM-SAT 2 [January, 2014 - May, 2015]*
  Lead a team to design an On-Board Computer for SRM-SAT 2, a research project aimed at designing a nanosatellite for a lunar mission under the guidance of ISRO.

PAPER PRESENTATION:

- *Addressing Security and Privacy Concerns on the Internet using HTTPS and TOR [26th February,2015]*
  Presented a paper on the above topic during Research Day in SRM University. In this paper presentation I pointed out the benefits of using HTTPS enable websites to prevent eavesdropping due to the exploitation of exit node vulnerability of Onion Routing.

IN-PLANT TRAINING:

- *C-DAC, Mohali [May, 2014 - June, 2014]*
  Trainee at above mentioned company in *Advanced Microcontrollers*. Worked on LED screen and Temperature Sensor interfacing with AVR microcontroller.

SKILLS:

- Programing Languages   :   Java
- Web Development tools   :   PHP, MySQL
- Web Designing tools   :   HTML, CSS, JavaScript
- Other Skills   :   Linux, Git

PROJECTS:

- *Onion Routing Implementation in Java [January, 2015] (https://github.com/tarunbatra/JOR)*
  Implemented Onion Routing infrastructure in Java for non-internet data traffic in private networks. Taking TOR's cue, proxies were limited to 3 hops and RSA algorithm was used to encrypt data.

- *Autonomous Temperature Controller [June, 2014]*
  Designed, developed and coded a temperature controller using ATmega90S8515. The device was able to detect the temperature, display it on a 16x2 LCD and also control a fan depending upon a threshold temperature. The micro-controller was coded in Assembly Language using AVR Studio IDE.
  Components: AT90S8515, ADC0804, L293DNE.

ACHIEVEMENTS:
- Presented the initial design to **ISRO** Chairman, *K Radhakrishnan* on behalf of SRM-SAT OBC team.
- Ranked **1st** in the world in *Hackerrank* Java Domain.
- Ranked **1st** in the world in *Hackerrank* SQL Domain.
- Ranked **2nd** in SRM coding test series hosted on *skillrack.com*.
- Completed the MOOC, '*Introduction to Linux*' by Linux Foundation on edX with **95%** score.
- Completed the MOOC, *'Programming, Data Structures and Algorithms*' by NPTEL.
- Completed the MOOC, '*Embedded Systems - Shape the World*' by University of Texas on edX.

WORKSHOPS:
- *Information Security [September, 2012]*
  Participated in Information Security workshop organized by Tech Bharat and accredited by EC-Council. Learnt various ethical hacking techniques like Proxy bypassing, SQL Injection, etc.

POSITIONS:
- *Event Coordinator, Infinite Stakes, Aaruush'13 [* September, 2013 *]*
  Co-ordinated the aforementioned 3 day event under X-Zone domain in Aaruush, a national level techno-management fest. The event went on to become the event which received highest ever footfall (900+) in Aaruush since the days of its inception.

VOLUNTEERING:
- *Aaruush'12 [September, 2012]*
  Volunteer for Hospitality Committee in Aaruush. Helped guests and participants with the know-abouts.

LANGUAGES:
English, Hindi, Punjabi, French (Basic).

LinkedIn Profile

10th July, 2015
Chennai

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