Aseem Raj Baranwal

Final Year Undergraduate

EDUCATION

- > B. Tech. in Computer Science | Indian Institute of Technology (CPI 8.67/10)
- > AISSCE 12th | Delhi Public School Ghaziabad (94 %)

EXPERIENCE AND PROJECTS

- > Internship at Microsoft India R&D | May July 2015
 - Designed a time based resource allocation scheme for virtual machines
 - Developed a web interface for developers and testers to create and use VMs
 - Language/Tools: C#, MySQL, ASP.NET, PowerShell, VCenter, JavaScript
- > Bandwidth Guarantee in Data Centre Networks | Sep 2015 Present
 - Surveyed about proposed solutions to existing bandwidth allocation problems in data centers
 - Developing an intelligent dynamic algorithm to heuristically allocate bandwidth to applications in case of server faults and introduction of new applications in the system

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- Dominating Set in Interval Graphs | May 2014
 - Devised a linear time algorithm for computing a minimum distance total k-dominating set for interval graphs under the guidance of Dr Dinabandhu Pradhan
- Code Judge | (May 2014)
 - Developed the web UI using Python-Django framework to fetch user submissions, make database updates, build the leader-board and deliver results in collaboration with the judge
 - The judge is an IO bound platform built on node.js
- > Collaboard | September 2014
 - Used Node.js with Express.js and Socket.io
 - Implemented a multi-user chatroom system with an additional canvas for collaborative sketching by multiple users in a chat room simultaneously

ACHIEVEMENTS

- > Team qualified for ACM ICPC Asia Regionals 2013, 2014 and 2015
- > Active on codeforces (rating: 1949, master) and codechef (best national rank: 18)
- Selected among 300 students nationally for MIT Media Lab workshop 2015
- > National team rank 22 in InCTF 2015 Hacking Contest
- > National team rank 19 and 15 in Microsoft CTF 2014 and 2015

SKILLS

- Programming Languages: C, C++, Python, JavaScript, C#, PHP
- > Platforms and Frameworks: Node, Octave, Django, ASP.NET