Aseem Raj Baranwal

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Educational Background

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Examination	Institution	Year	CPI / %	
Undergraduate	Indian Institute of Technology Jodhpur	2014*	8.67	
Intermediate C.B.S.E.	Delhi Public School Ghaziabad	2012	94.0	
Matriculation I.C.S.E.	St. Mary's Convent School	2010	93.2	

^{(* -} expected to be completed in 2016)

Skills and Expertise

Programming Languages

Significant experience with	Python, C, C++, JavaScript, PHP, HTML
Familiarity with	Ruby

Specific Tools and Technologies

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Client Side	AJAX, jQuery	
Server Side	LAMP, WebSockets, Google App Engine (Python SDK)	
MVC Frameworks	Python-Django (proficient), Ruby-Rails (familiar)	
Databases	MySQL, MongoDB, Redis.io	
Platforms	Node.js, Octave	
Version Control	Git, Mercurial	

Achievements and Activities

in a class of 146 students.

2013-14 Coordinator, Programming Club IIT Jodhpur

nents and Activities
Open-source contributor to Mozilla and Duckduckgo.
National rank 41, Global rank 118 on codechef.com
National team rank 23 at Microsoft Build the Shield – CTF 2015 , held by Microsoft Corporation, India .
Qualified for ACM ICPC 2014 Asia Regionals at IIITM Gwalior site.
Qualified for ACM ICPC 2013 Asia Regionals at IIT Kharagpur site.
National team rank 15 in Microsoft Hackcon – CTF 2014 held by Microsoft Corporation , India .
Participant at KDE conf India.
Participant at JS Conference , IHC Delhi.
1 st rank in Data Structures, Algorithms and Advanced Algorithms course

Projects and Experience

Commingle (MIT Media Labs): Designed a system for making learning experience more comfortable for all categories and age-groups of people. Mentors: Juliana Nazare, MIT	[Jan 2015]
 Research Work Intern (Graph Algorithm): Devised a linear time algorithm for computing a minimum distance total k- dominating set in interval graphs. Co-authored a research paper for the same, submitted to Discrete and Applied Mathematics Journal. 	Dr. Dinabandhu [June 2014]
 Code Judge (Node.js and Python-Django): Developed a code judge application in the <i>master-slave</i> fashion. Implemented job scheduling for load balancing on the slaves. <i>MySQL</i> Database used to store users data and problems. The judge is scalable and can be modified into an <i>API</i>. Github URL: http://github.com/aseemraj/judge-v2 	Dr. Gaurav Harii [July 2014]
 Train Traffic Simulator (In Python): Implemented scheduling algorithm to schedule the arrival and departure of trains on the available platforms. The scheduler takes into account the priority order of the trains. Changing time elapse rate and current simulation time enabled. MongoDB Database used for storing the schedule of trains. Github URL: http://github.com/aseemraj/tkintertrain 	Dr. Gaurav Harit [Aug 2014
 Web Chat Application (In Node.js): Used Express.js and Socket.io libraries. Facilities include online user list, geolocation and room creation. Used sockets for the asynchronous communication between chat clients and server. Github URL: http://github.com/aseemraj/nodechat 	[June 2014]
 Elevator Simulator (In Python): A 10 floor, 4 elevator system simulation with all features. Implemented an algorithm to optimize commuting time. Implemented weight sensors, call buttons, and panel buttons. Github URL: https://github.com/aseemraj/elevator 	Dr. Gaurav Harit [Sept 2014]
 Games: Carrom: Implemented the physics and geometry involved with the game play. Github: https://github.com/aseemraj/carrom Word Muddle: A word unscramble game, hosted on the Windows 	
 appstore. Github: https://github.com/aseemraj/wordmuddle Google App Engine: Web Scraper: A tool to scrape web pages and collect images, articles or any desired data. Jumble Solve: Unscrambles jumbled words into meaningful words and phrases. App is live here 	[July 2014]