Report from the Contest Director

The contest challenges students, working in three-person teams, to rely on their programming skills and creativity during a five-hour battle of logic, strategy, and mental endurance. Students solve complex problems using both traditional and new software development tools. Out of 252 teams participated in the online contest on September 29, 2011, we selected top 65 teams for the onsite contest at IIT Kanpur.

I am proud to inform you that the 13th ACM International Collegiate Programming Contest [Asia Region Kanpur Site] was conducted successfully at the Indian Institute of Technology Kanpur (India). It is a matter of great honor to be able to host this contest for the thirteenth time in a row. I am happy to say that the Contest really went off very well. This was largely due to the wonderful teamwork of IIT Kanpur.

Teams started arriving on the campus from December 6, 2011 midnight onwards with lot of hopes, ideas and enthusiasm. On December 7, 2011, Professor A. K. Ghosh, Dean of Students' Affairs, Indian Institute of Technology Kanpur welcomed all the contestants for this mega event. Professor Phalguni Gupta, Regional Contest Director of the Kanpur site talked about the ACM ICPC at IIT Kanpur. There were three key-note speeches delivered by three distinguish speakers, Mr. Manu Kuchhal, IBM India Software Limited, IBM India, Mr. Bhavin Turakhia, Chief Executive Officer, Directi, India, and Mr. Sreekanth Iyer, IBM Security Solutions, IBM India. Abstracts of their talks are given in Appendix.

To enable contestants to become familiar with the environment, on December 7, 2011 we had a practice session, which started at 3:00 PM and continued till 4:30 PM. In the evening we had the inauguration. On December 8, 2011 the contest began at 9:30 AM. It was of five hours duration. There were 10 problems.

Results were declared on December 8, 2011 at 6 PM by Professor Manindra Aggrawal, Dean of Resource and Planning Generation, Indian Institute of Technology Kanpur, Kanpur, India. We are glad to announce that Chennai Mathematical Institute, Chennai, India (Team Name: kernel) is the Winner of the Contest. The team could solve 5 problems. "TheUsualSuspects" of Indian Institute of Technology Madras, Chennai could also solve 5 problems and has become the runner-up. There are 10 teams who could solve at least 4 problems while 31 teams could solve at least 3 problems. There are 18 teams who solve 2 problems. Results are available on our web site http://www.cse.iitk.ac.in/users/acm/ranks.htm There are 50 teams who could solve at least one problem.

The Contest provided a platform where our future programmers, professionals, industries and government organizations worked together. It would have been impossible to organize this event without the wonderful support I received from everyone. My grateful thanks to all the contestants, coaches, all team members of Directi, ACM contest organizers, the IIT Kanpur administration, department colleagues, my working committees, volunteers, service providers, and a lot of people who helped from both within and outside the Institute. I also thank the media for providing wide publicity to this contest.

Phalguni Gupta
Contest Director, ACM ICPC Kanpur Site

Know whom you deal with: Entity Analytics

Manu Kuchhal

Advanced Case Management Development, Enterprise Content Management

IBM India Software Labs

Synopsis

Many business organizations are unable to make sense of what they know about the individuals with whom they do business. Security Agencies are always on the hunt to track the criminals and fraudsters who try to hide behind multiple identities. There is always a threat of fraud that worries banks and other financial institutions. All of them need set of tools and mechanisms that can help them know Who is Who, Who knows Who and Who is doing What. These aspects are broadly covered under the area of Information Management which is called as Entity Analytics. In this session we are going to understand what it is all about and some of the fundamental approaches that go behind the scene in a typical Entity Analytics System.

Manu Kuchhal is part of the Advanced Case Manager Development Team based out of IBM India Software Labs(ISL). Manu joined IBM as a fresh computer science graduate in the year 2000. He holds a BTech from HBTI, Kanpur (2000), and MS from BITS, Pilani (2005).

Manu has close to a decade of experience working on technologies such as Web 2.0, SaaS, SOA, Eclipse, Mobile Software Agents, P2P Computing, Grid Computing. Manu has proven himself to be one of the strong advocate and champion of the Component Oriented and Service Oriented concepts in ISL. Some of his work in the area of light weight infrastructure for clients and system management won him IBM Outstanding Technical Achievement Award and IBM Corporate Technical Recognition Event attendance.

Manu has made significant contributions to IBM's external technology preview channels like alphaWorks, developerWorks. He has been a prolific speaker at various conferences both external as well as internal to IBM. Manu has also delivered several invited lectures at IIT-Kanpur, Delhi, Roorkee, Kharagpur; NIT Kurukshetra, NIT Jaipur, HBTI-Kanpur and Banasthali Vidyapith etc

My Entrepreneurial Journey & Programming in India Today

Bhavin Turakhia

Chief Executive Officer, Directi

Synopsis

Persistence, hard work and innovation have taken Bhavin from being a techie to the successful entrepreneur of a $300 million business. The session aims to motivate students to think out of the box and to take advantage of the untapped IT potential in the country today. Listen to what Bhavin thinks of programming in India today, the importance of being recognized through competitions such as the ACM ICPC and why it is time we harness the huge reservoir of potential programming talent within our country.

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Bhavin is Directi's founding CEO and is responsible for the exponential growth of Directi from a startup in 1998 to a global web products company with 500+ employees and millions of global customers. Under his leadership, ResellerClub and LogicBoxes have become industry leaders in their respective verticals, and Directi has consistently featured amongst the fastest growing tech companies in Asia by Deloitte and Touche. He continues to manage the Vision, Strategy, Engineering and Operations of ResellerClub, LogicBoxes, .pw, BigRock.com and WebHosting.Info.

Bhavin is the chief architect of the .pw social communication platform, OrderBox, and various other products and services provided through ResellerClub and LogicBoxes. He has authored several technology patents. He conceived and launched CodeChef - a leading coding competition platform. He is also responsible for Directi's community evangelism efforts such as TechCamp.

Bhavin is a respected entity in the Web 2.0 landscape, and a frequent speaker at various seminars, tech conferences and colleges. He also serves as a technical advisor to the local CyberCrime Investigation Cell. He has won several awards, including the Entrepreneur of the year award in 2005. Bhavin was former chairman for the Global ICANN Accredited Registrars Constituency for two consecutive terms.

Understanding the Cloud Adoption Patterns- Opportunities and Challenges

Sreekanth Iyer

IBM Security Solutions

Synopsis

Businesses are looking to cloud computing to foster rapid innovation and decision making, for the agility needed to respond quickly in today's highly competitive environment, to reduce capital and operational costs, and an environment that scales easily to effectively meet customer needs. This session will provide you an introduction to Cloud Computing and the various cloud delivery and deployment models, their features and benefits. These benefits come with new complexities that must be properly managed. This includes rapid growth of virtualized resources across multiple environments, their relationship to underlying physical infrastructure as well as their Health monitoring and problem determination. This session will also elaborate on the key business and technical challenges for client adoption of cloud namely cloud ROI, security, service quality, performance and cloud integration. This session will help you identify the areas of career opportunities and research areas on cloud.

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Sreekanth Iyer 🔗 📧 📶 *is a Senior IT Architect in the IBM Security Solutions (CTO) team and focuses on cloud security. He has led several client solutions for Telco, Electronics, E&U, Govt, BPO & Banking industries across key areas including Cloud Computing, Service Management, SOA, event processing and business process management. He is an IBM and Open Group Master Certified Architect and is the chair of the Bangalore chapter of Association of Enterprise Architects. He has contributed to multiple Open Group publications including "Who is using Cloud - A Buyer's Perspective", "Cloud Computing for Business - the Open Group Guide" and regular blogger on IBM cloud computing central. He is certified in SOA, Cloud & ITIL V3 Foundation. He is a Master Catalyst for his contributions to IBM Innovation Jams and is a recognized innovator with a 1st Plateau Invention Achievement Award.*