SHUBHAM AGRAWAL

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EDUCATION			
Year	Program	Institution	CGPA/%
2007-Present	B. Tech, Computer Science and Engineering	Indian Institute of Technology, Kharagpur	7.44/10
2007	CBSE (Higher Secondary)	Central Academy Senior Secondary School, Kota	84.2%
2005	CBSE (Secondary)	Jawahar Navodaya Vidyalaya, Agra	86%

HIGHLIGHTS

- Secured All India Rank 307 with 135/162 marks in Mathematics in JEE, 2007
- Qualified AIEEE, BITSAT, UPSEE (Rank 281) exams, 2007
- Cleared 1st round of NTSE, 2005 and NSTSE, 2007
- Scored highest grades in the labs of Database Management Systems, Compilers and Computer Organization and Architecture

PROJECTS

• Fault Testing of Reversible Logic Circuits

(Aug'10-Present)

- Design heuristics, which automatically add the faults into reversible logic circuits as per the fault model and test vectors
- Design an application which simulates the benchmarks and outputs the fault coverage and set of undetected faults
- Design an algorithm for unified testing with more than one fault models for reversible logic circuits

Performance analysis of Cipher CLEFIA

(Mar'09-May'09)

- Designed a feasible attack on the cipher CLEFIA used by SONY
- The attack is based on inter-process information leakage through CPU's cache memory
- Built a simple search engine based on information retrieval techniques using Java

(Sep'10-Oct'10)

Implemented a chat server and client application using C in Computer Networks Lab

(Oct'10)

INTERNSHIPS

• IBM India Private Limited, Pune

(May'10-July'10)

Project Title

- Test Automation Framework Tivoli Provisioning Manager for Images and OS Deployment
- Challenges Understand the design of a basic Test Automation Framework created by Geneva Lab
 - Design and implement a comprehensive framework for the same, customize it for India Lab needs

Achievements

- Learned about various automation tools like ANT and JUnit
- Used virtualization and worked on different platforms and architectures as per the testing needs

iViZ Techno Solutions Private Limited, Kolkata

(Jun'09-July'09)

Project Title Challenges

- Prototype Scan Execution Platform (SEP) by implementing Message Bus
- Learn the techniques of Enterprise Integration Patterns, Ruby on Rails and make a highly scalable asynchronous implementation of SEP

Achievements

• Successfully prototyped the design and implemented it within a span of 40 days of training

POSITIONS OF RESPONSIBILITY

President, Computer Science and Engineering Society, IIT Kharagpur

(Apr'10-Present)

- Spearheading the conceptualization of Bitwise-2011, the annual algorithm intensive Online Programming contest
- Organized the Fresher's Welcome and Farewell ceremony, 2010
- Coordinator, Bitwise-2010 which had 6000 contestants from 65 countries; managed sponsorship worth Rs. 1 lakh

Mess Committee Member, Rajendra Prasad Hall Association, IIT Kharagpur

(Aug'08-Aug'09)

- Managed mess budget and vendor management for the mess of **530** students
- Created an online system for mess menu management; the system was designed in PHP
- Successfully implemented all my proposals

PROGRAMMING SKILLS

C, C++, Java, Shell Programming, Python, Ruby on Rails, MySQL, PHP, HTML, JavaScript, MIPS, Prolog

RELEVANT COURSES/LABS

Database and Management Systems Algorithms I and II Probability and Statistics
Applied Organizational Psychology Mathematics I and II Engineering Entrepreneurship

EXTRA-CURRICULAR ACTIVITIES

- Member, **Gold** Winning Rangoli Team, 2009
 - Rangoli was pixelated with more than 1.5 lakh pixels and a proper lighting was done to enhance the effects
- Member, **Bronze** winning Dramatics Team (Hindi), 2008
- Member, InterHall VolleyBall Team