

# Kunal Jain

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## Interests

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- Algorithms
- C/C++ Programming Language
- Linux Operating System
- Networks And Security
- Android Platform

## Education

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**International Institute of Information Technology ( Expected June 2012 ).**

B.Tech (CSE) — CGPA : 7.9/10

Currently - 8<sup>th</sup> Semester

**Holy Cross Higher Secondary School ( 2008 ).**

CBSE Board, 86%

**St. Xavier's High School ( 2006 ).**

ICSE Board, 85%

## Awards and Achievements

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- Qualified for **ACM ICPC World Finals 2012**, to be held at **Warsaw, Poland**.
- Microsoft Certified Professional at the age of 13.
- Gold Merit Certified in National Cyber Olympiad, Year 2004.
- Ranked 14<sup>th</sup> in India in Problem Solving at SPOJ as in November 2009.
- I ranked among top 4 in the Codechef Monthly Contests ( Feb-Apr ) — a national programming competition for Indians.
- I have been in top ranks and have got many prizes in many (>15) annual programming contest conducted by various universities in India in the Current Academic Year till date ( 1<sup>st</sup> Dec 2011 ).
- TopCoder Rated Coder  
Highest Rating : 1736  
Handle : kunaljain123456

## Projects

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**Google Mapmaker — Google Intern Project**

This project involves designing and implementation of new UI features for Google Mapmaker. I was responsible for all of the projects working along with my mentor.

**Virtualizing Systems and Networks ( Guide: Dr. Prasad Saripalli ) - Monsoon 2010**

This was a course project. We were to create 2 Virtual Machine (VM) network with 3 VMs each and a VPN between the 2 network. These VM networks should be able to contact complete LAN and ping machines over Internet. We were to setup the machines, proper routing configurations and setting up the VPN.

Team Size : 3

Technologies Used : Xen, OpenVPN.

### **Android SMS Utility Tool ( Self ) - Summer 2010**

This is one of my own project project to build a complete collection of SMS related utilities like mass SMS forwarding, bulk SMS forwarder.

Technologies Used : Java, Android SDK.

### **EMT Virtual Lab ( Guide Syed Azeemuddin ) - Semester 4**

This project requires creating a virtual lab in Electromagnetic Theory (EMT), for providing a new method of teaching the course targeted for Indian Colleges. The project is initiated by Ministry of Human Resource Development (MHRD). The virtual lab contains various experiments which will visually imparts conceptual knowledge to the user. The project is still in development phase.

Team Size : 4

Technologies Used : Java Applet, HTML, JavaScript.

### **Robot Control Software ( Guide Dr. Kamalakar Karlapalem ) - Semester 3**

The project was to create an IDE for writing code to control the robot. We interpreted the code written by the user and simulated the Robot accordingly. The same can be executed on the Robot wirelessly using a USB device called Xbee.

The user can add new instructions to the instruction set of controlling the Robot.

Team Size : 2

Technologies Used : Java Swings, C++.

### **Online Reading System ( Guide Dr. Vikram Pudi ) - Semester 3**

This project was to create an online system for the courses offered in the university, where the reading material were to be put up by the Course Instructors and the Tutors. The students can subscribe to a course, take the reading material, make notes, discuss the doubts, etc.

Team Size : 2

Technologies Used : web2py, SQLite.

### **ERP for Manufacturing ( Software Solutions Intern Project ) - Summer 2009**

The project is for batch process industry, having many modules like Enquiry, Sales, Purchase, Production, Quality Control, HR, Finance and Accounts.

My Role : To design transaction queries.

Technologies Used : VB.NET 2008, Crystal Report 11, MS SQL Server 2008.

### **TradeSoft ( Software Solutions Intern Project ) - Summer 2005**

This project is for small and medium traders, for Purchase, Sales and Accounts having multiple grouping for Items and Accounts both.

My Role : To design the database and the layout of the form, and write the database transaction queries.

Team Size : 4

Technologies Used : VB.NET, Crystal Report, MS SQL Server.

### **SSTreeView ( Software Solutions Intern Project ) - Summer 2005**

The project was to design an ActiveX control developed on a Tree View Control provided in VB.NET. This control can be mapped directly to the database. It has features like Add, Remove, Edit, Drag-Drop, etc.

Technologies Used : VB.NET

### **GridSoft ( Software Solutions Intern Project ) - Summer 2004**

The project was to automate the transaction and Data Trapping from RTU for Power Grid Corporation of India Ltd.

My Role : My role was to design and implement the whole software except implementing the formatized report provided by PGCIL, India. Running in all sub stations of WR1 and WR2 of PGCIL, India

Team Size : 2

Technologies Used : VB.NET, Java, Crystal Report, Ms Access.

## **Skills**

### **Technical Skills**

#### **Operating Systems**

Windows, GNU/Linux

#### **Programming Languages**

C (Advanced), C++ (Advanced), VB.NET (Basic), Java (Basic)

#### **Scripting Languages**

Python (Basic), Bash (Basic)

#### **Internet Technologies**

HTML (Moderate), Javascript (Basic)

#### **Database Management Systems**

MS SQL Server (Moderate), MySQL (Basic)

#### **Programming Environment**

Vim (Advanced), Microsoft Visual Studio .NET, Eclipse (Basic)

## Work Experience

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- Software Engineering Intern at Google India Pvt. Ltd. for a period of 10 weeks (May 2011 to July 2011).
- Organizer of primary Online Events of our College (IIIT, Hyderabad), Codecraft (Programming Contest) and TLE (based on Code Optimization) for the year 2010 and 2011, during our Techno-Cultural Festival Felicity, which had participation from 70 different countries with more than 1500 teams.
- Software Engineering Intern at Software Solutions, Raipur for a period of 2 months (May 2009 to July 2009).
- Software Engineering Intern at Software Solutions, Raipur for a period of 4 months (April 2005 to August 2005).
- Software Engineering Intern at Software Solutions, Raipur for a period of 3 months (April 2004 to July 2004).
- Teaching Assistant for the course Computer Programming.