



Area(s) Of Interest : Automata Theory, Computer Networks, Cryptography, Programming Languages, Theoretical Computer Science

Educational Qualifications	Year	Board/Institution	CGPA*/%
UG (III Year I Semester)	2014	IIT Roorkee	8.810
Twelfth Class	2009	Delhi Public School. R. K. Puram, New Delhi	96.400
Tenth Class	2007	Air Force Bal Bharati School, New Delhi	94.200

*GPA on a scale of 10

INTERNSHIP

University of Saskatchewan, Saskatoon, Canada

OpenCast Matterhorn Project (50 days)

Building a prototype for a hardware interface for an audio recording device using Arduino, and JAVA backend programming

RESEARCH PUBLICATIONS

Abhinav Aggarwal " **Principles of Flip Theory for the Development of Flip Cipher** "

International Proceedings of Computer Science and Information Technology (IPCSIT) - 2010-460X , 2012

Jaya, Siddharth Malik, Abhinav Aggarwal, Anjali Sardana " **Novel Authentication System Using Visual Cryptography** " Conference Proceedings, WICT 2011 , 2011

Abhinav Aggarwal " **Algebraic Message Authentication Code (AMAC)** " International Proceedings of Computer Science and Information Technology (IPCSIT) - 2010-460X , 2012

PROJECTS

University of Saskatchewan, Saskatoon, Canada

OpenCast Matterhorn Project (50 days)

Making an interfacial hardware for a video recording system, using Arduino and JAVA programming

IIT Roorkee

Brihaspati (Sept 2010 - Sept 2011)

GIS layering of all educational institutes in India

Delhi Public School, R.K. Puram, Delhi

Understanding Curve Inertia through the concept of Arc Management (3 months)

Understanding the properties of a curve using differential topology

Delhi Public School, R.K. Puram, Delhi

E-Ticketing Simulation (1 year)

Simulation on C++, an e-ticketing system for airlines

SKILLS AND ACHIEVEMENTS

Computer Languages:

C, C++, JAVA, J2EE, HTML, CSS, JSP, XML, JDBC, SQL, HASKELL, PASCAL, PYTHON, LINUX

Software Packages:

Matlab, Mathematica, Microstation, ArcView, gEDA, Office,

Academic Achievements:

LaTeX, Netbeans IDE, Eclipse IDE, DevC++, Microsoft Visual Studio, PetriNet, Xilinx

1. Recieved All India Rank - 1089 in the prestigious IIT-JEE(Indian Institutes of technology - Joint Entrance Examination) - 2009.
2. Niyamat Rai Memorial Runners Up Trophy for Most Innovative Project in Mathematics, 2009
3. Academic Head (2008-9), Mathematics, DPS RKPuram, New Delhi

Additional Courses Taken:

Java, Algorithms, System software, Computer Architecture, Data and discrete structures, Computer Networks, Compilers, Cryptography, Automata theory, Operating Systems

Languages Known:

English (S/R/W); Hindi (S/R/W);

EXTRA CURRICULARS**Mathematics Quiz/Events (2008-12)**

Judge/Organiser of various Math-based quizzes including Mathematical Crusade, DPS RK Puram, New Delhi, and numerous events at IIT Roorkee

Violinst (2010-Present)

Active Member of Music Section, IIT Roorkee. Have played in various inter-college music shows.

All izz.. not well (2009)

Sponsor, Organizer for this social public awareness event during Cognizance IIT Roorkee

Debate Competition (2010)

Won the second prize in this competition organized during the Cultural week in IIT Roorkee

PERSONAL DETAILS

Father's Name : Rajkumar Aggarwal

Date of Birth : 06-08-1991

Gender : Male

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REFERENCES

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