

DILIP KUMAR KOLA

Present Address:

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Indian Institute of Technology Kanpur

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OBJECTIVE

- To obtain a creative and challenging Summer Internship where I can get a work experience that utilizes my engineering and interpersonal skills as well as provides me the opportunity to enhance them for future career prospects.

AREAS OF INTEREST

- Networks and Security
- Operating Systems
- Cryptography and Algorithms
- Graph Theory

EDUCATION

- **Indian Institute of Technology Kanpur, Kanpur**
Bachelor of Technology (Computer Science and Engineering) To be completed by June 2009
CPI¹: 7.7/10.0 or 3.08/4.00

Courses Undertaken:

- | | |
|---|-----------------------------------|
| ◆ Fundamental of Computing | ◆ Programming Tool and Techniques |
| ◆ Data Structures and Algorithms I | ◆ Computer Networks |
| ◆ Discrete Mathematics | ◆ Compiler Design* |
| ◆ Introduction to Computer Organisation | ◆ Algorithms II* |
| ◆ Operating Systems | ◆ Computer Architecture* |
| ◆ Theory of Computation | ◆ Advanced Computer Networks* |

* ongoing Courses

➤ Schooling Information

Class	Percentage	Subjects
Class XII	89%	Mathematics, Physics, Chemistry, English, Sanskrit
Class X	88%	Mathematics, Science, Social Studies, English, Telugu, Hindi

TECHNICAL SKILLS

- **Programming Languages:** C/C++, JAVA, VHDL, Assembly Language(for UNIX Platform) on IA32 Architecture.
- **Platforms:** UNIX/Linux, MS-DOS, MS WINDOWS 98/2000/NT/XP/VISTA.
- **Tools and Technologies:** Latex/Tex, Lex, Yacc, Awk, HTML, PHP, Flash, MS FrontPage.

RESEARCH AND PROJECTS

➤ **Solver for Very Large System of Equations:**

During Summer 2007, I was in a group of two, which developed a solver for a large system of equations of order 1000x1000 where each of the Coefficients being of the order of 500 digits in a finite field using LU decomposition.

Objective: Factorization of large numbers in a finite field we get large system of equations which can be solved using the above solver.

Guide: Prof. Phalguni Gupta, Department of Computer Science and Engineering, IIT Kanpur.

➤ **Developing a Custom Cryptographic Service Provider (CSP)**

During Summer 2007, I was in a group of two trying to add new algorithms for developing a Custom Cryptographic Service Provider for MS WINDOWS XP and VISTA in order to enhance their security.

Objective: There is always a probability that system with standard Cryptography Algorithms may face an attack so our goal is to make a non standard Cryptography based system in order to protect from such attacks.

Guide: Prof. Manindra Agrawal, Department of Computer Science and Engineering, IIT Kanpur.

ACADEMIC ACHIEVEMENTS

- Secured rank 71(Percentile: 99.95) in the IIT JEE² Examination, 2005.
- Secured rank 119(Percentile: 99.90) of successful candidates in the AIEEE³ Examination, 2005.
- Secured rank 11(Percentile: 99.98) in Polytechnic Exam (State Level Exam), 2003.

EXTRA-CURRICULAR ACTIVITIES

- Coordinator of Control Room in Antaragni, Cultural Festival of IIT Kanpur, 2007.
- Coordinator of Control Room in Udghosh, Sports Festival of IIT Kanpur, 2007.
- Volunteer of Convocation at IIT Kanpur, 2007.
- Assistant Coordinator of Control Room in Techkriti, Technical Festival of IIT Kanpur, 2007.
- Secretary of Control Room in Antaragni, 2006.
- Winner of a Robotics Competition in Intra IIT Technical Festival, 2005.

PERSONAL INFORMATION

Permanent Address: Door No: 58-9-77
New karasa
Visakhaptnam-530009
Andhrapradesh, India

Date of Birth: 29th August 1988
Sex: Male
Nationality: Indian
Phone: 0891-2520569

DECLARATION

I hereby declare that the above details are true to the best of my knowledge.

Place : Indian Institute of Technology Kanpur

Name : Dilip Kumar Kola