

# Shikhar Kumar Gupta

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## SUMMARY

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I am currently pursuing B. Tech. Information and Communication Technology (ICT) at [Dhirubhai Ambani Institute Of Information and Communication Technology](#) as a final year student. I am also part of the [Laboratory of Natural Information Processing at DA-IICT](#) working on research projects involving DNA Self-Assembly, Chemical Reaction Networks, Error correction in DNA Codes etc.

## COMPUTER SKILLS

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### Languages:

- Proficient experience in C, JAVA, Javascript and PostgreSQL
- Familiar experience in Python, HTML and CSS

### Tools and Technologies:

- [IDEs](#): Eclipse, IntelliJ Idea, Aptana Studio, PG Admin III, Linux Terminal
- [Biotechnology Tools](#): Cadnano, Cain, Visual DSD.

### Softwares:

#### • [DNA Pen- A Tool for Drawing on Molecular Canvas](#)

DNA Pen is a software that provides user friendly interactive environment to aid scientists and users in making 2 D shapes at nanoscale using DNA. The software provides error free DNA sequences which can be used to envisage the shape drawn at nanoscale.

[Guide](#): Dr. Manish K Gupta

[Environment](#): JAVA, HTML, Twitter Bootstrap

#### • [Acclivia- Grow with Groups](#)

A group project activity management website, I was involved in the design and implementation of the database and the user interface of the website. Developed a message passing interface for the platform and significantly contributed in the integration and testing of the final website.

[Guide](#): Dr. Asim Banerjee

[Environment](#): Javascript, HTML5, Twitter Bootstrap

### • DA-IICT Files Catalogue- P2P File sharing system

A Database Management System for a peer-to-peer file sharing software with IMDB like features e.g. (requesting new files, ratings, comments etc.). I was involved in the design and implementations of the database, relevant queries, triggers and console integration.

**Guide:** Dr. P. M. Jat

**Environment:** PostgreSQL, JAVA(JDBC)

### • Wildlife Tracker Device

Designed a client-server implementation for a tracker device that connects to a server and sends information and files along-with real time message passing.

**Guide:** Dr. Sanjay Chaudhary

**Environment:** C, BSD Sockets

## EXPERIENCE

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May-July, 2013	Software Developer Intern, Laboratory of Natural Information Processing at DA-IICT This internship at the end of third year was to familiarize with the research done in the areas of DNA Computing and Molecular Programming, so as to develop insight for research capabilities.
May-June, 2012	Teaching Assistant, Dr. Shiv Viswanathan
December, 2011	Rural Internship, Lupin Human Welfare and Research Foundation (LWHRF) To familiarize with the socio-economic and living conditions of the rural India, so as to develop ICT applications for improving the living standards of the rural folk. It involved social analysis and suggesting solutions under the field of Women Empowerment, Health and Education, and Skill development in various villages.

## EDUCATION

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2010-present	Bachelor of Technology Dhirubhai Ambani Institute Of Information and Communication Technology CGPA: 6.93
2008-2009	AISSE SJS Public School Aggregate Percentage: 81%
2008-2009	AISSE Dayawati Modi Public School Aggregate Percentage: 87.6%