FORAM Meghal Joshi

Personal Information

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Education

B. Tech 2010-present	**Dhirubhai Ambani Institute of Information and Communication Technology** *Information and Communication Technology* CPI: 7.28/10
AISSCE (Class XII) 2010	**International Indian School, Al Jubail, Saudi Arabia** *Aggregate Percentage:* 93.8
AISSE (Class X) 2008	**International Indian School, Al Jubail, Saudi Arabia** *Aggregate Percentage:* 90.8

Skills

Computer Languages:	Java, C, C++, HTML5 & CSS3, Javascript, MySQL, $\LaTeX$
Tools and IDEs:	Eclipse, Intelli J Idea, PhpMyAdmin, PG Admin III, Maya, Adobe Photoshop, Adobe Flash
Biotechnology Tools:	Cadnano, Cain, Visual DSD, 3DNA, DNA Pen

Electives

Core CS:	Software Engineering, Algorithms, Data Structures and Algorithms, Database Management System, Operating Systems, Computer Networks, Introduction to Graph Theory, Formal Specification and Verification
Applied CS:	Computer Graphics, Introduction to Animation, Web programming
Biotechnology:	Introduction to Biotechnology, Natural Computing, Coding Theory and Applications

Projects

3DNA:	A Tool for DNA Sculpting
Description:	3DNA is an interface aimed to ease the task of visualizing, modeling, and designing complex 3Dimensional shapes ,utilizing the concept of single stranded DNA bricks. 3DNA is a combination of graphical user interface and an integrated sequence generator for synthetic DNA sequences.
DNA Pen:	A Tool for drawing on a Molecular Canvas
Description:	DNA Pen provides a user-friendly interface to aid scientists to create 2D shapes at the nano-scale. It allows the users to draw/write on the molecular canvas and generates the DNA sequences, which self-assemble.
e-PATHSHALA:	A semester project on Software engineering for developing an interface to serve as online educational help for school children. I was the core-developer for the user interface of the project.

PUBLICATIONS

Posters: 1. SK Gupta, F Joshi, D Limbachiya and Manish K. Gupta "3DNA: A Tool for DNA Sculpting" April 2014, published at FNANO14 proceedings, Duke University, USA

2. A Goyal, D Limbachiya, S K Gupta, F Joshi, S Pritmani, A Sahai and Manish K. Gupta "DNA Pen: A Tool for Drawing on Molecular Canvas" September 2013, published at DNA19 proceedings, Arizona State University, USA

CONFERENCES AND WORKSHOPS

Conferences: 1. 11th Annual Conference on Foundations of Nanoscience (FNANO14), April-2014, (Organized by Duke University at) Snowbird, Utah, USA

2. Frontiers in Chemistry & Biology of Oligosaccharides, January-2014, IISER, Pune, India

3. 19th International Conference on DNA Computing and Molecular Programming (DNA19), September-2013, Arizona State University, Tempe, AZ, USA

Workshops: 1. Workshop on Superresolution Fluorescence Imaging, FNANO14, January-2014, (Organized by Duke University at) Snowbird, Utah, USA

RESEARCH INTERESTS

1. Natural Computing
2. Synthetic Biology
3. DNA Self-assembly
4. Chemical reaction networks
5. Data Structures and Algorithms
6. Coding Theory and Applications