

# Paras Chopra

21, Male, Single

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## SUMMARY

- Founded 3 startups in the past: Kroomsa, Precimark and NaramCheez.
- Completed Bachelor of Engineering from Delhi College of Engineering in 2008 with 83% marks and stood 1st in the department.
- Skill-set includes web programming, algorithm development, idea incubation and academic research.
- Published 3 research papers in international peer-reviewed journals.
- Was selected for numerous international and national fellowships and scholarships during undergraduate studies.

## OBJECTIVE

To be a part of a team which provides creative solutions to challenging problems.

## EDUCATION

- *2004-2008 | Delhi College of Engineering, Delhi University, India*  
Completed "**Bachelor of Engineering in Biotechnology**" course with **82.3%** marks and stood **1st** in the department.  
GRE General Test Score **1500/1600** (Verbal: 700/800, Quantitative: 800/800 and Analytical Writing 4.5/6)
- *2004 | Class XII (Higher Secondary), CBSE Board*  
Class Rank: **1st** with aggregate marks: **91.4%**.
- *2002 | Class X (Secondary), CBSE Board*  
Class Rank: **2nd** with aggregate marks: **87.4%**.

## WORK EXPERIENCE

- **Founder | Kroomsa: An Indian Independent Music Bands and Artists Music Platform** (*Jan, 2008 - contd.*)  
Leading a team of six people, I am successfully managing Kroomsa which helps Indian bands promote their music on the web. A win-win model has been created as the revenue generated through the website is shared between the artist/band, Kroomsa and an NGO.
- **Founder | Precimark: An Online Marketing Firm** (*June, 2007 - August, 2007*)  
I conceived the idea of using social networks to target online marketing precisely. After assembling a team of four, I started working on this concept. But the concept proved to be ahead of its time, so we closed shop. However, Precimark was a great learning experience for me on social interaction and leadership.
- **Managing Editor and Founding Member | Jeev: An Online Life Sciences Magazine** (*Nov, 2005 - 2007*)  
My job was to manage and edit the magazine and its website, in addition to writing articles for the magazine.
- **Founder | NaramCheez: A Software Company** (*2000 - 2007*)  
NaramCheez has developed many software and provided them free on the internet. The company has also served many international clients by developing custom applications.

## RESEARCH EXPERIENCE

- **Summer Researcher at School of Physical Sciences, Jawaharlal Nehru University, Delhi | Modeling firefly flash synchronization in a group** (*May, 2007 - July 2007*)  
Under guidance of Dr. Ram Ramaswamy, modeled the phenomenon involving synchronization of

flashes in a group of fireflies (of a select species). Specifically, implemented Mirollo and Strogatz model, verified it and later expanded it to include spatial considerations.

- **Research Intern at National Center for Biological Sciences, Bangalore | A predictive tool for protein-protein interactions in a specific protein family** (Dec, 2006 - Jan, 2007)

Working under Dr. Mukund Thattai at National Center for Biological Sciences, Bangalore, developed a web based tool for predicting subclasses of proteins (belonging to a specific protein family) based on its amino acid sequence only. The tool is written in Python and hosted on LINUX. The webserver giving access to the tool will be online soon.

- **Summer Research Fellow at Indian Institute of Science (IISc), Bangalore | A quantitative model for the regulation of the *bgl* operon in *E. coli*** (Jun, 2006 - Jul, 2006)

Under guidance of Prof. V. Nanjundiah and Prof. S. Mahadevan in Molecular Reproduction, Development and Genetics department of IISc, Bangalore, developed a quantitative model (in SBML language) for the regulation of the *bgl* operon in *E. coli*. The prestigious summer research fellowship was awarded by the Indian Academy of Sciences.

## PROJECTS

- *Business*

1. **Designed a business plan on 'Educational Biotechnology Kits for Students'** (Oct, 2005 - contd.)

This business plan was for a company called *BioGeeks* which deals in educational biotechnology kits for students. The business plan has already won 1st prize at Bioventures, IIT-Delhi.

2. **Designed a business plan on 'Customization of mobile phones'** (Jan, 2005-Jun,2005)

This business plan was for a company called *Revolutionize* which aims to revolutionize the mobile phone market by letting customers design their own phones.

- *Information Technology*

1. **Working on the 'Artificial Being Project'** (Nov, 2002 - contd.)

The project aims to create a complete artificial being with full human like capabilities. It will be conscious, intelligent, self sustaining organism.

2. **Implemented numerous Artificial Intelligence techniques** (2003 - contd.)

Implemented [Genetic Programming & Self-Organizing Maps](#) in Python language and [Cellular Automata](#) software in Visual Basic. A feed-forward backpropagation neural network was implemented in [C++ & Visual Basic](#). In addition to this, also wrote my version of [Genetic Algorithm](#) and a [basic chatbot](#).

3. Wrote tutorials on [Particle Systems](#), [Neural Networks](#) and [Genetic Algorithms](#).

4. Devised my own algorithms such as 'Explore!' and Artificial creativity.

5. Programmed a stock market simulation system for BullzNBears event at [Troika 2005](#), a technical festival.

- *Personal*

1. **Organized Tatva 2006, Technical Festival of DCE and Hacked!, A hacking seminar for ASES**

As a part of organizing team, developed website, interface, posters, etc. for various events and festivals in my college.

## ACHIEVEMENTS

- *Academics*

1. Was selected for **MRC-Laboratory of Molecular Biology, Cambridge, UK Summer Research Studentship 2007, JNCASR's Summer Research Fellowship 2007 and Indian Academy of Sciences Summer Research Fellowship 2006.**

2. Was awarded "*Certificate of Merit*" from CBSE in the subject of *Physics* for being among **top 0.1%** scorers in the senior secondary examinations.

3. Secured **rank 456** out of more than 50,000 candidates in the CEE examination.

- *Information Technology*

1. Established an IT company named **NaramCheez** in year 2000, at the age of 13.
  2. Was **interviewed** in an Indian IT magazine M@G.NET.
  3. Developed **PDFProducer**, which was featured in a German magazine called PC WELT and PC Quest's CD.
  4. Won **second prize** for **Bloggage** at Troika '06 and 2nd prize for the chatbot **SPEAK** at Innovision '06.
  5. Got **5 star rating** by users at Planet Source Code for my tutorials on **Neural Networks** and **Genetic Algorithms**.
- **Biology**
    1. Awarded **second Prize** for a technical paper on 'Genetically modified crops in India' at Tatva 2005.
  - **Business**
    1. Successfully ran **NaramCheez** since its inception.
    2. **Business Plan for BioGeeks** won **first prize** at Bioventures, BioHorizon 2006, IIT-Delhi.
    3. Won **first prize** for the business plan pitching competition at **ASES Singapore Summit 2005**.

## PUBLICATIONS (peer reviewed)

- **Paras Chopra** and Andreas Bender. A Quantitative bgl Operon Model for E. coli Requires BglF Conformational Change for Sugar Transport. Accepted in *Transactions in Computational Systems Biology*.
- **Paras Chopra** and Andreas Bender. Evolved cellular automata for protein secondary structure prediction imitate the determinants for folding observed in nature. *In Silico Biol.* 7, 0007 (2006).
- **Paras Chopra** and Akhil Kamma. Engineering Life through Synthetic Biology. *In Silico Biol.* 6, 0038 (2006).

## SKILLS

- General purpose algorithm design, construction and engineering using Python, C++, MATLAB and Visual Basic.
- Designing applications involving Artificial Intelligence and Machine Learning.
- Web application programming using AJAX, PHP, Python, Javascript, etc.
- Incubating creative ideas and executing them in real world.

## KEY CONFERENCES PARTICIPATED

- **BioHorizon 2006**, A National Symposium on Biochemical Engineering and Biotechnology at IIT-Delhi.
- Participated **ASES Singapore summit 2005** on entrepreneurship as a member of the Indian delegation.

## PROFESSIONAL MEMBERSHIPS

- Asia-Pacific Student Entrepreneurship Society (2005-present)
- Institute of Electrical and Electronics Engineers (2004-2005)