

Curriculum Vitae

Parag Saraogi

II year B.Tech Undergraduate Student
Department of Computer Science and Engineering
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A2/32 High Land Park,
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Objective

Seeking a challenging internship/research opportunity where I can gain experience in the area of **Graph Theory,Computer Networks,Web Designing,Cryptography** and **Algorithm design**.

Education

Examination	University /Board	Institute	Year	CGPA/%
Graduation	IIT Hyderabad	IIT Hyderabad	2011(present)	7.82
Intermediate/+2	CBSE	Bakshishs SpringDales,Kota	2009	89.4
Matriculation	SSC(Maharashtra)	Sharon,Mumbai	2007	88.46

Academic Distinction

- Secured an **All India Rank of 2011** in **IITJEE 2009** out of approximately 400,000 participants.
- Secured an **All India Rank of 1383** in **AIEEE 2009** out of approximately 1,000,000 participants.

Relevant Undergraduate Course Work

➤ Professional Major – *Computer Science and Engineering:*

Introduction to Computer Science and Engineering, Computational Engineering, Foundations of Computer Science, Data Structures and Algorithms(Theory + Lab), Theory of Computation, Computer Organization and Design, Digital System Design,Advanced Programming Lab,Microprocessor Lab

➤ Mathematics:

Probability and statistics,Discrete Mathematics,PDE and Numerical methods

Key Academic Projects

- **Data Compression and Decompression :**
 - Functional programming (in **C++**) for **Lossless Compression** of Text-Files using **Huffman Encoding** technique.
 - Implemented an optimal combination of **Min Heaps and Binary Search Trees** for dealing with text-data. Achieved **data compression ratio** of about **40-50%**.
 - Developed **user friendly GUI** for easy usability of the program.

- **External Memory Sorting:**
 - Created a program (in **C++**) for **Sorting** large Text-Files that **do not fit in main memory**.
 - Implemented using **Quick Sort, Merge Sort and Binary Heaps**.

Computer Skills

- Platforms : Linux, Windows
- Languages Known : C,C++,HTML,Basic Shell scripting,VHDL
- Software : Proficient with MS Office, Adobe Photoshop
- Hardware Skills : Undergone Lab Courses in Digital Circuit Design and Microprocessor programming

Positions of Responsibility

- **Hospitality Coordinator** for **Elan 2011**. Elan is the inter-collegiate annual technical-cum-cultural festival of IIT Hyderabad.
- **Student Mentor** for the year 2010 – 2011. Student Mentor Program is a support and guidance system available to the student body at IIT Hyderabad.
- Member of **the Dining Hall Committee** for the year 2010 – 2011. The committee oversees the catering contract for the student hostels at IITH.

Extracurricular Activities

- Represented IITH at **Inter- IIT Sports Meet** 2009 and 2010 as a member of the Institute Football team.
- Columnist for '**Reverb**'. Reverb is the Student Newsletter of IIT Hyderabad.
- Won the **E-Cell Football League** organized by the Entrepreneurship Cell at IIT Hyderabad.