Satvik Ramaprasad
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🎓 Education

August 2016 Present	International Institute of Information Technology - Bangalore (IIIT-B)
	> Integrated M.Tech. in **Computer Science**, 5th Semester
	> Cumulative GPA: **3.90 / 4.00**

▤ Skills

Python/C++/Java, Database Systems, Web Development, Project Management, Business Analytics, Computer Graphics, Linux and Production Systems

💼 Experience

> **Hyperreality Technologies | Project Intern** ⬈ hyperrealitylabs.com October 2018 - Present

My internship is to work on a software solution which can generate 3D models of the house from the image of a house plan/layout.

> **Homigo | Full Stack Developer** ⬈ Homigo.in June 2018 - August 2018

Homigo is a flat sharing platform to solve rental problems (similar to Airbnb). My internship involved setting up business analytics, third party integrations and meeting several feature requirements.

> **Zense | Project and Group Coordinator** ⬈ Zense.co.in Jan 2017 - present

Zense is a Software Developer Club of IIIT-Bangalore. I coordinate with the various teams on several projects.

> **Digital Logic Design | Teaching Assistant** Jan 2018 - May 2018

I was the TA for Digital Design Course for the 2017 batch.

🖥 Projects

> **CircuitVerse | Founder** ⬈ CircuitVerse.org Feb 2017 - Present

CircuitVerse is an easy to use online digital circuit simulator. It provides a platform to create, share and learn digital circuits across the world. I am the primary developer and maintainer of this open source project. Currently the platform has over 1000 registered users and over 2500 saved circuits.

> **BMTC - Cost Optimisation Project | Project intern** Jan 2018 - March 2018

Project under Prof. V N Muralidhara. The project involved finding ways to reduce the cost for BMTC.

> **Toxic Comment Classification | Kaggle** September 2018 - November 2018

Used Machine Learning algorithms to produce a model which can predict toxicity level of a given comment.

> **C++ Text Prediction and Auto correct Project | Primary Developer** April 2016

Trie data structure to efficiently store and retrieve millions of words. Algorithms were implemented over the trie structure.

> **LightXLab | Primary Developer** ⬈ Lightxlab.zense.co.in Jan 2014 - Feb 2016

LightXlab is an interactive program to simulate ray optics. It involves solving equations, geometry and physics.

> **Othello AI Game | Primary Developer** ⬈ satu0king.github.io/othello Jan 2014 - Feb 2016

Classic Othello Game with good AI. 3 Different modes of difficulty, each adding a layer of logic.

> **Animation Code Generator | Primary Developer** ⬈ satu0king.github.io/ledcube3d Jan 2014 - Feb 2016

The tool is an animation editor which can generate LED Cube animation code for Arduino.

> **Web Board | Project Mentor** ⬈ Webboard.zense.co.in May 2018 - Present

Web Board is an online platform which will allow teachers to use the smart boards in class online.

> **IIITB - PhotoGallery | Primary Developer** ⬈ Photogallery.IIITB.ac.in April 2018 - May 2018

IIIT-Bangalore PhotoGallery was developed to showcase the various events and activities within Campus.

🖥 Course Projects

> **Huffman Compression for text files**   1ST SEMESTER

Huffman's algorithm can be viewed as a variable-length code table for encoding a source symbol (such as a character in a file). The algorithm derives this table from the estimated probability or frequency of occurrence (weight) for each possible value of the source symbol.

> **Graphs Plotter with built in interpreter**   🔗 Project Link   1ST SEMESTER

Simple interpreter which can do basic maths operations. It can also plot basic functions.

> **Image Processing Project**   🔗 github.com/satu0king/ImageProcessing   3RD SEMESTER

Developed library for various image filters from scratch

🏆 Achievements

> **Dean's Merit List**
I am in the Dean's Merit List 2017 and 2018 for academic performance. Received Merit Scholarship for first and second year.
> **Infin8 - Competitive Programming**
I bagged the first place in the college.

> **ACM - ICPC 2017**
Our team scored second place in the college with a national rank of 361.
> **Snackdown - 2017**
Qualified for the final Elimination round.

📖 Relevant Courses

> **Algorithms** - Data Structures and Algorithms, Design and Analysis of Algorithms
> **Math** - Probability and Statistics, Linear Algebra, Calculus, Discrete Maths
> **Systems** - Digital Logic Design, Computer Architecture, Systems and Signals
> **Data Science** - Machine Learning, Database Systems
> **Others** - Computer Networks, Software Engineering, Automata Theory

⭐ Interests

> **Entrepreneurial Interest** - very passionate and curious in knowing how companies operate in general and what decisions and factors lead them to success.
> **Product Development** - Interested in general technology based products with a special focus on educational products and their impact on the current education system.
> **Research interest** - Inclined towards research in simulation models, rendering and data science.