

SATVIK RAMAPRASAD

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EDUCATION

August 2016 International Institute of Information Technology - Bangalore (IIIT-B)

- Present
- > 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](https://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](https://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](https://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 1700 registered users and over 3800 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](https://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](https://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 - PHOTO GALLERY | PRIMARY DEVELOPER** [Photogallery.IIITB.ac.in](https://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.