



## Biswesh Mohapatra



Computer Science Student • GSOCer 2018 • [biswesh.mohapatra@iiitb.org](mailto:biswesh.mohapatra@iiitb.org)

I am a second year Computer Science student studying at IIIT-Bangalore. I am a computer science enthusiast who loves to explore different fields of it.

## Skills

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- Have proper knowledge on languages like Python, C, C++, Java, Javascript, Ruby on rails.
- Experience in Developement, Competitive Programming
- Been part of various projects used by people in day to day life.
- Active participant in open source community.
- Participated in Google Summer of Code 2018 and worked for the organisation OpenStreetMap.
- Managerial skills - currently hold Learning Manager post at IIIT-B Developer's club( Zense ), Core member of Internet Committee of IIIT-B.
- Volunteered in various activities like Technical Festivals, Cultural Festivals, Hackathons conducted in our college.
- Proficient with English, Hindi, Odiya.
- Interested in debates - Represented school at national level

## Education

10th Board Examination, CBSE, 2013 - 2014

CGPA - 10/10

School - Kendriya Vidyalaya, Bailey Road, Patna

12th Board Examination, CBSE, 2015-16

Percentage - 94%

School - Kendriya Vidyalaya, Bailey Road, Patna

Joint Entrance Examination( JEE ) - Mains , 2016

Percentile - 99.7

Marks - 204/360

Computer Science Engineering, International Institute of Information Technology - Bangalore, 2016 - Present

CGPA - 3.9/4 ( First 3 semesters)

Received Grade A in core CS subjects like Data Structures and Algorithms, Discrete Maths, Digital Design

# Projects

## CircuitVerse, Feb 2017 - Jan 2018

A Web based digital simulator which is currently used by students of IIITB in their 2nd semester course - Digital Design. We are planning to spread it to other colleges soon.

**Technology Used** - *Javascript for front-end and Ruby on rails for back-end. The simulator uses canvas.*

**Link** - <https://circuitverse.org/>

## BMTC Cost Optimisation Project, Jan 2018 - Present

A project under Professor Murlidhara where we are trying to come up with an algorithm which can help Bangalore Metropolitan Transport Organisation(BMTC) in reducing its operational cost.

**Status** - We have successfully implemented our initial set of code and have been able to optimise the cost to a certain extent.

**Technology Used** - *Python, Data structures, Algorithms*

## IIIT-B Placement Portal, Jan 2018 - Present

A portal that would help the students as well as the companies during the placement season by making the entire process easier. Students can now select their preferences, companies can give their requirements. The portal would help keeping a track of everything and would provide both the parties with valuable information.

**Status** - Currently I have been working on it with two of my super seniors.

**Technology Used** - *Ruby on Rails*

## Public Transport Assistant (GSOC), May 2018 - Present

An assistant that would help the mappers of OpenStreetMap in automating many things. Stuff which they used to do redundantly before can now be done by the assistant on its own. So of the work of the assistant on which I have worked on are route helper button, roundabout splitter button, validators, double splitter button etc.

**Status** - It is an open source work which is used by many people to make it easier to map. The assistant is currently working nicely and would receive new features in the future.

**Technology Used** - *Java, Swing*

**Link** - [https://github.com/JOSM/pt\\_assistant](https://github.com/JOSM/pt_assistant)

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**Status** - Currently I have been working on it with two of my super seniors.

**Technology Used** - *Ruby on Rails*

## College Projects:

- *Automatic Sliding Puzzle solver* - 1st semester project which solves any NxN sliding puzzle in the most optimum way.  
**Technology Used** - *Python, Algorithm*

- *Shortest path problem* - 1st semester project where we try to find out the shortest path when we are given some constraints such a pothole with a negative weight and a jet with a greater weight.  
Technology Used - C
  - *Image Processing Project* - 3rd semester project where we were given a set of tasks which we needed to perform on a particular image to get the desired result such as Finding Connected Component, Taking mirror image etc.  
Technology Used - C++
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## Achievements

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### Dean's Merit List

Part of Dean's Merit List, 2017 for my academic performance in the first year. Received scholarship for being in the top five.

### CBSE School Topper

I was a school topper in 12th board examination.

### ACM-ICPC 2017

Our team came second in the college with a national rank of 361.

## Organisations

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### Zense

Zense is the developer's club of IIIT-Bangalore. I am a core member and also the learning manager whose work is to conduct various knowledge sessions for both members and non-members.

### Internet Committee

Internet Committee is a student body which looks into various internet related issues faced in the college network and also tries to put forward the legitimate demands of the students.

### CAMP

Club for Algorithm, Mathematics and Programming( CAMP) is an algorithm club which promotes competitive programming in the college. I have been a member of it from January 2017.

### IEEE

I have been given Institute of Electrical and Electronics Engineers ( IEEE ) membership by my university for being in the Dean's merit list.

## Hobbies and Interest

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*Badminton* - I have been playing badminton since my school days and enjoy the sport a lot

*Music* - I like to listen to music in my spare time

*Politics* - Have an interest in politics

*Tech Lover* - I keep an eye on the latest gadgets and also like to learn about all the fun things happening currently

Explore - I love to watch documentary and explore about various things happening in the world

