



## Rishav Chourasia

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## Qualifications

Degree	Institute	Score	Year
B-Tech Computer Science And Engineering	Indian Institute of Technology, Guwahati	CPI-9.66/10	2014-2018
All India Senior School Certificate	DPS Bokaro, B,S City, Jharkhand-826001	91.6%	2012-2014
Indian Secondary School Certificate	De Nobili C.M.R.I, Dhanbad, Jharkhand	96.4%	Upto 2012

## Areas Of Interest

- Deep Learning on Image Processing
- Augmented Reality
- Automation based on ML

## Projects

### Academic Projects:

- 1. File Folder Downloader for college intranet** Sep-2015 to Dec 2015  
System Software Lab project for 2<sup>nd</sup> Semester was to create a File Folder Downloader for the college having multiple features like drag and drop, sharing with others via link/name file compression and protection of user identity. Django Framework was used. Group of 3 headed by me.
- 2. Intranet Search engine** Mar-2016 to Apr-2016  
Use of Deep Learning library named caffe to classify images of tumours as malignant or non-malignant. Judging the effective model for this classification to produce efficient results.

### Robotics Club:

- 1. Autonomous Room Cleaner** Jan-2015 to May-2015  
Robotics Club project to make a cheap and affordable autonomous room cleaner using trivial on-board sensors. The bot used ATmega ICs, 2 ultrasonic sensors and a few bump sensors. The Bot used PID controller to follow walls and detect edges.
- 2. Multiple Sensor Tester** Feb-2015 to April-2015  
A project to detect whether a given sensor is functioning or not. The purpose of this project was to help robotics club in assessing sensor functionality before applying them in use.
- 3. RC Speed Boat** Nov-2014 to Dec-2014  
The project was to make a remote controlled multiple purpose speed boat for an All India Technical Competition, Techfest held in IIT Bombay.
- 4. 4-Wheeled bot to demonstrate PID controller** March-2015  
The Bot moved with constant velocity irrespective of the angle of inclination of the track.

## Personal Projects

1. **Android Application for Geo-based Augmented Reality** Dec-2015 to Present  
A login based application to show the user the last seen positions of the other users in an augmented reality view (in form of a point with respective name viewed on the camera screen). The aim is to extend it for eye wearables.

## Scholastic Achievements

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- **Topped** my Department of Chemical Engineering in my first year of college (Cumulative Performance Index- 9.83).
- Changed my branch from Chemical to Computer Science and Engineering (requires a condition of being in **top 8 of the institute**).
- Got AIR 3890 in JEE(advanced)2014 and AIR 4126 in JEE(mains)2014 (top 0.3 % among **1.4 million** candidates)
- Scored 96.2% in class 10 ICSE board examination. Was the school **topper** out of 300 students and achieved **district rank 5**.
- **Topped** my class 11 examination. Got a scholar badge from my school.

## Technical Skills

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- **Languages:** C, C++, Python, Java, HTML; (basic): Bash, C#
- **Software:** Android Studio, Eclipse, Django Web Development Framework, Arduino IDE; (basic): ROS, Visual Studio.
- **Operating System:** Linux, Windows.

## Courses Undertaken

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- Data Structures and Data Structures Lab.
- Discrete Mathematics.
- Digital Design and System Software Lab.
- Introduction to Computing and Computing Laboratory.
- Ordinary and Partial Differential Equations, Real and Complex analysis, Linear Algebra.
- Engineering Mechanics, Engineering Drawing and Mechanical Workshop.
- Introduction to Electrical Sciences and Basic Electronics Laboratory.
- Introduction to Chemical Sciences and Chemical Lab.
- Physics-I, Physics-II and Physics Lab.

## Positions Of Responsibility

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### Club Manager, Robotics Club

- In charge of managing the Robotics Club, IIT Guwahati. 2015-Present

### Group leader of my projects, Robotics Club

- In charge of giving instructions to the students in the projects I did under Robotics Club.

### Class Representative in class 11 and 12

2012-2014

- Responsible for the class actions and monitored the class in teacher's absence.

## Extra-Curricular Activities

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- Was the winner of Robothon, Kolkata city; a nationwide robotics hackathon event conducted by IIIT Hyderabad in 5 major cities.
- Represented IIT Guwahati in one of the robotics events of the Techfest 2015 conducted in IIT Bombay.
- Won the second prize in IOT hackathon conducted by Bolt, one of the rising IOT startup in India.
- Member of the NSS web development team.
- Made the Student Affairs' intranet website along with a fellow batch mate.
- Represented hostel in inter hostel technical competition.

## References

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References are available upon request.