



# Rishav Chourasia

Roll Number : 140101086  
B.Tech - Computer Science and Engineering  
Indian Institute of Technology Guwahati

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## Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2014 - 2018	B.Tech	Indian Institute of Technology, Guwahati	9.42 (Current)
2014	Senior secondary	CBSE board	91.6%
2012	Secondary	ICSE board	96.4%

## Experience

- **Summer Intern at Hanyang University, South Korea.** May 2016 - July 2016  
Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative of IFSA [goo.gl/yczOr6](http://goo.gl/yczOr6)
  - Developed a search engine for Hanyang website.
  - Worked on a research paper on application of type 2 Fuzzy Systems to model uncertainty in pattern recognition techniques to improve performance.

## Publications

- (Ongoing) **R. Chourasia**, S. Vyas, A. Radhakrishnan, F. C.-H. Rhee, Applying interval type-2 fuzzy logic for Parzen window density estimation.  
Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative IFSA [JIS](http://JIS)

## Projects

- **Search engine for Hanyang University** May 2016 - July 2016  
Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative of IFSA  
Worked on a **funded project** for developing a **search engine** on python for searching lecture notes, documents and forms along with traditional webpage searches on hanyang.ac.kr domain.
- **Smart Line-following Autonomous Efficient Robot (S.L.A.E.R)** Mar 2016 - Current  
Robotics Club IIT Guwahati [goo.gl/UpsscG](http://goo.gl/UpsscG)
  - An autonomous line follower capable of learning a map of lines and then creating a virtual graph to navigate using shortest path, while detecting and avoiding tagged objects using image processing.
  - This project **won the Robothon Kolkata**, was **demonstrated in Robofest, IIIT Hyderabad** and also in **Techexpo IIT Guwahati**.
- **Android application for geo-based augmented reality** Oct 2015 - Dec 2015  
Microsoft Code.Fun.Do [github.com/Rishav1/DeStrangify](http://github.com/Rishav1/DeStrangify)
  - A login based application to show the users, locations of their nearby friends in an **augmented reality view**.
  - Used online cloud storage system of **parse.com** for storing user credentials and real-time locations.
- **Dynamic walking on a biped bot** July 2016 - Current  
Robotics Club IIT Guwahati [goo.gl/UpsscG](http://goo.gl/UpsscG)  
A biped bot implementing dynamic walking using machine learning model to train the bot.
- **File sharing system for Institute intranet** Sept 2015 - Dec 2015  
Prof. Santosh Biswas  
Django framework based file sharing system, with drag and drop, multiple upload, share via link and data compression features.
- **Android Application for IIT Guwahati Alumni** Aug 2015 - Oct 2015  
An android application for IIT Guwahati Alumni Association, with push notification feature.

## Technical skills

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- **Programming languages** : C, C++, Python, Java, Bash\*.
- **IDE** : Android Studio, Xilinx ISE, Visual Studio\*.
- **Statistical Languages** : Matlab, Octave.
- **Database management** : MySQL, PostgreSQL.
- **Frameworks** : Django web development framework.
- **Miscellaneous** : Arduino, Git\*.
- **Operating system** : Windows, Linux

*\* Elementary proficiency*

## Positions of Responsibility

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- **Manager**, Robotics Club, IIT Guwahati.

*Jan 2016 - Current*

## Achievements

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- **Topped** Department of Chemical Engineering in first year (CPI- 9.83).
- Was the leader of the **winning team of Robothon**, Kolkata, organized **under Robofest by IIIT Hyderabad** in top 5 cities of Kolkata, Delhi NCR, Bombay, Hyderabad and Bengaluru.
- Was the leader of the team that secured **2nd position in IoT hackathon** organized by **Bolt IoT in collaboration with Techniche**, at IIT Guwahati.
- Secured **3rd position in the image processing competition** held under **Kriti 2016, Inter Hostel Management Cup**, IIT Guwahati.
- Got **AIR-3890** in JEE(advanced)2014 and **AIR-4126** in JEE(mains) 2014 (**top 0.3% among 1.4 million candidates**).
- Was awarded **scholar badge** for being the **class topper of class 11 examination**.
- Was the **school topper, among 300 students** in class 10 **ICSE examinations**, and achieved a **district rank of 5**.

## Extra curriculars

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- **Android app development workshop** : Attended a 3-day workshop on Android app development conducted in Techniche 2014, IIT Guwahati.
- **3D Printer workshop** : Attended a 3-day workshop on 3D Printer technology conducted in Techniche 2015, IIT Guwahati.
- **Robotics** : Keen interest in doing robotics team projects and demonstrating them in exhibitions.
- **Blogging**: Active blogger.

## Key courses taken

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| • Discrete mathematics                      | • Linear algebra, real & complex analysis.     |
| • Data structures and algorithms.           | • Ordinary and partial differential equations. |
| • Probability Theory and Random Processes.* | • Software Engineering.                        |
| • Economics and game theory.                | • Theory of Computation.*                      |

*\* To be completed in Nov 2016*

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**(References available on request)**