

# Pratik Chhajer

<https://pratik-chhajer.github.io/pratik/2015csb1025@iitrpr.ac.in>

## EDUCATION

### IIT ROPAR

BTECH IN COMPUTER SCIENCE  
Expected May 2019 | Punjab, India  
Cum. GPA: 8.25

### BOARD OF SECONDARY EDUCATION RAJASTHAN

2013-2015 | Rajasthan, India  
10<sup>th</sup> std : 88.83%  
12<sup>th</sup> std : 89.4%

## SKILLS

### PROGRAMMING

Level: Good

C • C++ • JavaScript • python

Levl: Average

PHP • Matlab • Shell • Assembly

• HTML • CSS

Familiar:

MySQL • jQuery • Perl

• Android •  $\text{\LaTeX}$  • Git

## COURSEWORK

Computer Architecture

Data Structures

Linear Algebra

Probability Theory and Stochastic processes

Software System

## EXTRA CURRICULAR

- Coordinator of Enigma quiz and puzzling club of IIT Ropar for AY 2016-17
- Active participation in coding competitions
- Member of ACM chapter of IIT Ropar

## CONTACT

+91-9530277235

## PROJECTS

### CLASSROOM ASSISTANT | COURSE PROJECT

Jan 2017 – Mar 2017 | IIT Ropar

- An Android application to be used for a classroom.
- Provides innovative way of taking attendance in classroom.
- Extra feature includes posting question from instructor and auto grading in real time to deduce the class response.
- Worked in team of four under guidance of Dr. Mukesh Saini and Dr. Neeraj Goel, I built back-end using PHP and MySQL.

### CAMPUS.NET | INTER IIT TECH MEET

Mar 2017 | IIT Kanpur

- A chrome extension and web portal providing daily life functionality to college students.
- New tab provides functions like quick notes, mess menu, events feed, library notifications, attendance notifications, etc...
- Web portal provides lecture hall booking system, all events details, past years question papers, etc...
- Worked in team of four where I built new tab and lecture hall booking system.

### SIMPLE-RISC SIMULATOR | COURSE PROJECT

Sept 2016 – Nov 2016 | IIT Ropar

- Implemented the function simulator and pipelined simulator in c++ for simple-RISC processor.
- Simulator takes instruction encoding in MEM file as input and outputs values of all the registers and no. of cycles.
- Analysis of number of cycles in presence and absence of pipeline.
- Worked in team of two under guidance of Dr. Neeraj Goel.

### AUTOMATIC CODE OUTPUT CHECKER | PERSONAL PROJECT

April 2017 | IIT Ropar

- To be used by teaching assistants to check the codes.
- Given input and output text files, code automatically run each students code and grade accordingly.
- Works for C language assignments.
- Easy to scale to other programming language.

## RESEARCH

### RANKING OF NODE IN A NETWORK | SUMMER PROJECT

May 2016 – Jun 2016 | IIT Ropar

Worked with Dr. Sudarshan Iyengar and Akarti Saxena to find a new method to find degree rank of a node in network of nodes. The classical ranking methods use complete network to compute degree rank, but we devised a new method in which degree rank is calculated using sampling technique.

## RANKINGS

2015	#1381/150,000	JEE Advanced 2015
2015	#2603/1,300,000	JEE Mains 2015
2016	#2/80	Data Structures (CSL201)
2017	#317/6194	FEB Challenge CodeChef