

# Sarbpreet

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## Education

Bachelor of Technology, Computer Science and Engineering Indian Institute of Technology Patna	2012 - 2016	8.72/10 (Over 6 Semesters)
Higher Secondary Certificate, C.B.S.E K.C. Public School, Punjab	2012	92%
Matriculation, Punjab School Education Board Adarsh Bal Vidyalaya, Punjab	2010	78%

## Work Experience

- ❖ **Summer Internship – Amazon India (Hyderabad)** (May, 2015 – July, 2015)  
-Guide, Rakesh Dhanireddy (SDE Amazon India)
  - Worked as Software Development Engineer (Intern) at Amazon Development Centre Hyderabad, for 2 months
  - Designed and implemented automation tool for migration of configurations to a custom designed database.
  - Minimized the human interaction thus increasing efficiency of service deployments.

## Projects

### ❖ Academic Projects

#### ANDROID LIVE STREAMING APP – NEWSLIVE

(Oct, 2014 – Nov, 2014)

[github.com/preetsarb/newslive](https://github.com/preetsarb/newslive)

- Guide, Dr Joydeep Chandra (Assistant Professor of Computer Science Department, IIT Patna)
- Built an **Android App (NEWSLIVE)** that allow users to **share video as it is being recorded**. Video recording is uploaded to centralized server, from where it can be streamed live by other users and can also be viewed later on.
- Media encoding and streaming is done using **Real Time Streaming Protocol (RTSP)**.
- Intended to share live events and news easily in public.

#### COURSE MANAGEMENT SYSTEM

(Feb, 2014 – April, 2014)

- Guide, Dr Samrat Mondal (Assistant Professor of Computer Science Department, IIT Patna)

- Developed a **web based “Course Management” framework** by working in a team of 5 members by **leading the group** and worked as backend team member.
- Inspiration for project - to provide easy access to the course material and attendance record to students/faculty.

### ❖ Own Projects

#### ONLINE CODE COMPILATION SYSTEM

(Dec, 2013 – Jan, 2014)

[github.com/preetsarb/codegear](https://github.com/preetsarb/codegear)

- Built an online portal for **code editing and compiling** using **Django** and **C** in a team of 3 members.
- Supported Languages: **C, C++, JAVA**
- Main motive to replace bulky IDE's
- To be used in Anwasha'15.

#### GESTURE CONTROLLED ROBOT

(Oct, 2012)

- Built a basic robot using **Atmega8 microcontroller**.
- Implemented the **Gesture Control** by using **image & video processing** and **serial communication** in **Matlab**.

## Topics of Interest

- ❖ Artificial Intelligence, Machine Learning, Computer Networking, Electronics Digital Circuits, Cryptography, Image Processing, Hacking.

## Skills

### ❖ Programming

- C, JAVA, C++ (Intermediate), Python (Basic), Android, Perl, Shell Scripting, XML, SQL

### ❖ Web – Designing

- PHP, Django, JSP, HTML, CSS, JavaScript.

### ❖ Creative

- Photography, Photoshop.