

Akash Trehan

Computer Science and Engineering II year B.Tech

Room No. 271, Hostel 7, IIT Bombay

Mumbai, India - 400076

✉ akash.trehan123@gmail.com



ACADEMIC ACHIEVEMENTS

- Ranked **2nd** in the department among 126 students on CPI basis. (*April 2016*)
- Scored **AP grade** in Biology and Engineering Drawing for Advanced Performance (*April 2016*)
- Secured **99.99 percentile** in JEE Main amongst **1.5 million** students across India (*July 2015*)
- Secured **All India Rank 24**, State Rank 1 in **IIT JEE Advanced** out of 150,000 students in India (*June 2015*)
- School Topper in class 12 scoring 95% in CBSE (*June 2015*)
- School Topper in class 10 scoring 97% in ICSE (*May 2013*)
- Won the **National Talent Search Examination '12** (NTSE) scholarship and **Kishore Vaigyanik Protsahan Yojana '14** (KYPY) Fellowship Award.()

PROJECTS

EVENTual

Institute Technical Summer Project

Jan 2016--Present

IIT BOMBAY

- Created a platform for **creating and sharing events** easily, automating the task of filling details in the calendar by creating sharable links and QR Codes.
- Implemented a **Django backend** to maintain a database, handle queries and serve the EVENTual website.
- Developed an **Android application** with functionality including communicating with the server and QR code scanning.
- Made a website platform using *HTML, CSS, JS and jQuery*.

Sept 2015–Present
Institute Academic Council

MooDLD
IIT BOMBAY

- Made a **one-click Moodle downloader** in Python using Tkinter GUI for auto-downloading course files on Moodle. Saves the user for downloading all files one by one or even caring about new files being uploaded.
- **Designed and tested** the corresponding Android application developed.

April 2016–Present
Student Technical Activity Body(STAB)

Institute Hacker News
IIT BOMBAY

- Made a website interface to help students **share interesting technical information** they find on the internet and have discussions about them.
- **Implemented the backend** using Django for rendering the website, managing database, authenticating users using Single Sign On(SSO) login, managing upvotes and comments on various shared links.

Sept 2015–Oct 2015
Guide: Prof. Varsha Apte

Checkers
IIT BOMBAY

- One player checkers with **Artificial Intelligence**(Computer) as opponent and using Prof. Abhiram Ranade's 'simplecpp' library for graphics.
- Inspired from the **Minimax algorithm for Game AI**

“Bande Da Kamm Hai Bandagi Karna...Phal Dena Malak Di Mauj Hai” - BABA NAND SINGH JI

TECHNICAL ACHIEVEMENTS

- **Runner Up** in **Kandy Sugar Hackathon**(open to all) 2016.
- **1st** position in **XLR8 2015** - Created a Remote controlled obstacle crossing robot.
- **25th** position(participating alone) against 430 teams in **Backdoor CTF 2016**.
- Successful submission at **Microsoft code.fun.do** 2016 hackathon - Created a game using C#.
- Successful submission at **Lenovo Game Jam** 2015 - Created a game using python.
- Working on **Network and Information Security** under Seasons of Code initiative learning new hacks and participating in various Capture the Flag competitions.
- **Conducted a 4-hour hands-on workshop** on **Arduino programming** for **50+** students.
- Made a **Remote-controlled Airplane** and an **Autonomous Line Follower**.
- Have **various personal projects** on my github such as a python script for downloading all videos of your favourite youtube channel and many games made in python(with Django), JAVA and C#