

# Nihal Kumar Singh

SECOND YEAR UNDERGRADUATE

IIT Bombay, India

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## Education

### IIT Bombay

July 2015 - PRESENT

B. TECH. IN CIVIL ENGINEERING

CPI - 8.39

- Pursuing Minor in Computer Science and Engineering.
- Ranked 9<sup>th</sup> in the department among 117 students on CPI basis

### Apeejay School, Nerul

Till 2015

INTERMEDIATE/+2 12TH CBSE

96.0 %

MATRICULATION 10TH CBSE

97.0 %

## Experience

### MovingBlocks- Terasology

Open Source

GOOGLE CODE-IN MENTOR

Nov. 2016 - Jan. 2017

- Involved as one among 12 mentors for the MovingBlocks Terasology organisation in its first Google Code-In participation, which is a pre-university level Google Summer of Code. Enthused in the students the spirit of Open Source and community building.
- Extensively coordinated and assisted in reviewing a total of 606 tasks from 222 students across the globe.
- Authored and edited various tasks. Documented guides to aid students in easy setup and getting started.

### SAFE App, Research and Development Project

IIT Bombay

UNDER PROF. BHASKARAN RAMAN

Autumn 2016

- Worked for the development of an app which can revolutionize the way online paperless tests take place in educational institutions.
- Built a part of the Android app which shows previous quiz results. Performed extensive testing and added new features.

### Kibo

Mumbai, India

FULL STACK DEVELOPER

Feb. 2016 - June. 2016

- **Project Awaaz**, a non-profit initiative to create an audiobook repository for the blind. Anybody can record text by reading out uploaded content and the recordings would be compiled, stiched and distributed.
- Built the backend for [www.projectawaaz.org](http://www.projectawaaz.org) and [www.kibo.in](http://www.kibo.in) using the Django framework. Designed responsive websites using jQuery, HTML and CSS. Worked extensively on the Android app for Project Awaaz and handled server side integration.

## Development Projects

### LendIt

Microsoft Code.Fun.Do

DJANGO, JQUERY, HTML, CSS

Autumn 2016

- Designed a web application that builds a lending platform to bridge the gap between lenders and borrowers.
- Through LendIt one can find people around who wish to lend out books or other shareable commodities and perform a safe exchange.
- Incorporated an OTP and caution money mechanism to make the transaction fool-proof and secure.

### EVENTual

Institute Technical Summer Project

IIT Bombay

ANDROID, DJANGO, JQUERY, HTML, CSS

Summer 2016

- Created a platform for creating and sharing events easily, automating the task of filling details in the calendar by generating shareable links and QR Codes. Made a web interface [www.eventual.co.in](http://www.eventual.co.in) to facilitate creation and searching of events.
- Developed an Android app which would pick up sharable links and scan QR Codes, to automatically add the event to calendar.

### MooDL

UG Academic Council IIT Bombay

ANDROID, WINDOWS, LINUX, OSX

Sep. 2015 - PRESENT

- Made a Moodle downloader in Python using Tkinter GUI for downloading shared course files on Moodle.
- Developed an Android application for the same using Asynchronous tasks and multiple user customization features.

## Achievements

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- Mar 2017 **Yahoo! Prize**, The "most creative and fun hack" in Yahoo! Japan's institute wide hackathon *IIT Bombay*
- Dec 2016 **Runner Up**, Microsoft Code.Fun.Do institute wide hackathon *IIT Bombay*
- Aug 2016 **5th Place**, Hack InOut- out of 1000+ teams in nationwide hackathon. (3-person team) *NIT Surat*
- Mar 2016 **Runner Up**, Kandy Hackathon- institute wide open hackathon *IIT Bombay*
- Sep 2015 **2nd Place**, Lenovo Game Jam- institute wide Game Development hackathon (2-person team) *IIT Bombay*

## Skills

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- Comfortable** C/C++, Python, Java, Android, HTML, CSS, JavaScript
- Familiar** Django, OpenCV, LaTeX, Bash, Ruby, PHP
- Software/Tools** Git, Adobe After Effects, NCH Video Pad, Adobe Photoshop

## Positions of Responsibility

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### Web and Coding Club

*IIT Bombay*

CONVENER

*Apr. 2016 - PRESENT*

- Coordinating events of one of the largest programming clubs in India aimed at inspiring students to take up programming as a hobby.
- Conceptualized and built a community wiki, consisting of guides and references, to help beginners get started with programming.
- Started and maintained the WnCC youtube channel. Added a series of talks and discussions under WnCC Vodcasts.
- Ideated and initiated Rattlesnake- the pilot online Python Workshop to teach by building. Hosted on WnCC's youtube channel.
- Conducted the GIT and Python workshop and assisted in organizing several other events and talks.

### Web and Creatives, Mood Indigo

*IIT Bombay*

WEB AND TECH COORDINATOR

*Sep. 2016 - Dec 2016*

- Created the official app for Mood Indigo, Asia's largest college cultural festival with a footfall greater than 1.31 Lakhs.
- Conceptualized and ideated the app layout and wireframe along with UI/UX.
- Implemented core backend functionality in the app, fetching events and creating timely notifications for subscribed events.

## Relevant Courses

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- Computer Science** Computer Programming and Utilization, Data Structures and Algorithms, Computer Networks, R & D Project
- Civil Engineering** Engineering Mechanics, Solid Mechanics, Geodesy, Structural Mechanics, Building Materials and Construction, Fluid Mechanics, Applied Hydraulics and Engineering Drawing
- Others** Economics, Quantum Mechanics, Electromagnetism, Calculus, Linear Algebra, Differential Equations

## Miscellaneous

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- Journalism** Selected in the Times of India- NIE student camp for junior-journo in 2011 to be trained under Nikhat Kazmi. Authored and edited independent articles published in Times of India - NIE.
- Sports** Completed NSO (National Sports Organization) in Swimming. Participated and completed 12 kms in the 12 hour Swimathon '16. Inter-school Football player.
- Interests** Music, Gaming, Videography and Travelling