

# Nihal Kumar Singh

THIRD YEAR UNDERGRADUATE

IIT Bombay, India

☎ (+91) 9821427822 | ✉ [nihal.111@gmail.com](mailto:nihal.111@gmail.com) | 🏠 [nihal111.github.io](https://nihal111.github.io) | 📱 [nihal111](#)

## Education

### IIT Bombay

July 2015 - PRESENT

B. TECH. IN CIVIL ENGINEERING

CPI - 8.50/10

- 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

### Google Summer of Code

Open Source

MOVINGBLOCKS- TERASOLOGY

May 2017 - July 2017

- Developed a new gameplay mode involving puzzles, traps and exploration based content packed in a new world with a backing lore.
- Created and added WildAnimals to the game, with new Behavior Trees, imported models and animations.
- Dealt with the game's multiplayer and Entity Component System. Made several accompanying changes and fixes to the engine.

### Google Code-In Mentor

Open Source

MOVINGBLOCKS- TERASOLOGY

Nov. 2016 - Jan. 2017

- Involved as one among 12 mentors for the organisation's first Google Code-In participation. GCI 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.
- Handled the quiz history and student performance visuals on the app. 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, stitched and distributed.
- Built the backend for Project Awaaz and the Kibo website 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 Finalist

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.

## MooDLD

ANDROID, WINDOWS, LINUX, OSX

- 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.

UG Academic Council IIT Bombay

Sep. 2015 - PRESENT

## Achievements

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

MANAGER

Apr. 2017 - PRESENT

- Established ties with Google Developers Group- Mumbai, Ubisoft, Udacity and multiple other sponsors for organising events.
- Organised and hosted completion of several projects in the Seasons of Code program held in Summer.
- Implemented several techniques to aid in community building by keeping a bulk of the sophomores involved with all club activities.

### Web and Coding Club

IIT Bombay

CONVENER

Apr. 2016 - Mar. 2017

- 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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<b>Computer Science</b>	Computer Programming and Utilization, Data Structures and Algorithms, Computer Networks, R & D Project
<b>Civil Engineering</b>	Engineering Mechanics, Solid Mechanics, Geodesy, Structural Mechanics, Building Materials and Construction, Fluid Mechanics, Applied Hydraulics and Engineering Drawing
<b>Others</b>	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