Nihal Kumar **Singh**

THIRD YEAR UNDERGRADUATE
IIT Bombay, India

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Education ─────────────────────────────

IIT Bombay	*July 2015 - PRESENT*
B. TECH. IN CIVIL ENGINEERING	*CPI - 8.50/10*

- Pursuing Minor in Computer Science and Engineering.

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	*Winter 2016 and 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- Python/Django/Apache/MySQL. Designed responsive websites using jQuery. 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 to facilitate creation snd 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 *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

Oct 2017	**1st Place**,	Ubisoft GameJam- 48 hour GameJam conducted in Ubisoft Pune studios.	*Ubisoft Pune*
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

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

Manager *IIT Bombay*

WEB AND CODING CLUB, INSTITUTE TECHNICAL COUNCIL *Apr. 2017 - Mar. 2018*

- Organized and conducted the first ever, Data Science Day, consisting of Panel Discussion, talks from Professors and the Mumbai chapter of Stanford's Women in Data Science conference to supplement the learning of students in the associated fields.
- Built an internship portal to connect students with startups/professors. 700+ registrations and 20+ internships offered.
- 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.

Convener *IIT Bombay*

WEB AND CODING CLUB, INSTITUTE TECHNICAL COUNCIL *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 Tech Coordinator *IIT Bombay*

WEB AND CREATIVES, MOOD INDIGO *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

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

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