

## Pursuing a minor in **Computer Science and Engineering** **EXPERIENCE**

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### **Google Summer of Code** *Student for MovingBlocks*

May '18 - July '18  
*Mumbai, India*

- Selected for the Google Summer of Code program (**17.5%** proposals selected in 2018) to work on MovingBlocks "**Minecraft inspired**" game called **Terasology**, under the guidance of **4 mentors**.
- Worked on **Entity Component System** of Terasology to include **multiple words** in the same game.
- Enabled **splitting** of entities by having separate entity pools for each world with a shared global pool.
- Redesigned the **create game flow** to account for multiple worlds such that each world is **separately configurable**. Built various **commands** to create, move and count entities across different worlds.

### **Google Code-In** *Mentor for MovingBlocks*

December '17  
*Mumbai, India*

- Involved as a mentor for the organisations 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.
- Coordinated and assisted in reviewing a total of **606 tasks** from **222 students** across the globe. Authored and edited various tasks. Improved guides to aid students in easy setup and getting started.

## **PROJECTS**

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### **Texter** *Text Analytics, Python*

Spring '18  
*Microsoft Code.Fun.Do*

- Wrote a script which filled a boring piece of **text information** with relevant and **explanatory images**.
- Used the **Microsoft Azure Text Analytics API** to detect key phrases and language from the text. Sent the received data for every paragraph to the **Bing Image Search API** to fetch relevant images.
- Made these APIs accessible through an app and a chrome extension to receive texts and return images.

### **Lend-It** *Android, Java*

Autumn '17  
*Web and Coding Club, IIT Bombay*

- Built an online platform to bridge the gap between **book lenders and borrowers**. Through LendIt one can find people nearby lender and borrow books or other commodities and perform a safe exchange
- Implemented an **ISBN scanner** fetch the details of the books using **Google Books API**. Added the functionality of uploading images of the book to ImageBin. Reached the semi-finals of **Eureka 2017**.

### **Smart Key** *RaspberryPi, Flask, Android*

Summer '17  
*Institute Technical Summer Project, IIT Bombay*

- Created an App which could replace the **conventional key**, which was **shareable** over the internet
- Made a server using **Flask** (Python), designed different APIs for different tasks like lock operation and registration, also made the key shareable with other users for a specific interval of time
- Made the lock such it would replace the conventional "latch", while the **app would replace the key**
- Hosted the server on a **RaspberryPi** which also controlled the mechanical part of the lock

## Mood Indigo Website

*Django, Python*

Summer '17

*Mood Indigo, IIT Bombay*

- Worked on the backend of the website, created various **APIs using Django** to register participants
- Extensively used the **Django RESTful Framework** to design and implement the APIs for the site.

## POSITIONS OF RESPONSIBILITY

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### Manager

*Web and Coding Club*

April '18 - Present

*IIT Bombay*

- Led a team of **20 sophomores**, part of one of the **biggest** college technical clubs in India, to conduct hobbyistic **programming activities** in the institute. Organized talks, workshops and competitions.
- Improved the **internship portal** to connect students with startups. **700+** registrations and **20+** internships offered. Developed an online journal for previous managers to maintain essential notes.
- Established ties with Google Developers Group- Mumbai, Ubisoft, xLabs and multiple other sponsors.

### Convener

*Web and Coding Club*

April '17 - March '18

*IIT Bombay*

- Coordinated events of one of the largest clubs in India aimed at inspiring students to take up coding.
- Founded the **GSoC Incubation Cell** which guides students in getting started with **Open Source**.
- Guided **100+** first-year students in making an app using MIT Scratch and conducted the Git Workshop.

### Web and Tech Coordinator

*Mood Indigo*

April '17 - March '18

*IIT Bombay*

- Handled **30 organisers** and guided them into working for Web and Tech Department in Mood Indigo
- Created the app for Mood Indigo, Asia's largest college cultural festival with a **1.31+ lakhs** footfall.

## RELEVANT COURSES

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- **Computer Science** - Computer Programming and Utilisation, Data Structures & Algorithms, Computer Networks, Introduction to Machine Learning<sup>1</sup>, Computer Graphics<sup>1</sup>.
- **Metallurgy and Material Science** - Transport Phenomena, Mechanics of Materials, Colloids and Interfacial Science, Thermodynamics of Materials, Structure of Materials.
- **Others** - Psychology<sup>1</sup>, Introduction to Numerical Analysis, Economics, Data Analysis and Interpretation, Quantum Mechanics, Electromagnetism, Linear Algebra, Calculus, Differential Equations

## TECHNICAL SKILLS

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- **Strong** - Java, Python, C/C++, Android
- **Familiar** - Matlab, Octave, HTML, CSS, Javascript, SQLite
- **Tools** - Git, Arduino, Adobe Premiere Pro,  $\LaTeX$

## MISCELLANEOUS

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- **Social Service** - Catered to the needs of an **underprivileged family** and taught orphan kids speaking skills as a part of **NSS**. **Taught** basic Mathematics and English to underprivileged kids.
- **Technical Activities** - Contributed to an **online wiki**, a programming guide developed by the Web and Coding Club, IIT Bombay. **Stood second** in the Microsoft Code.Fun.Do 2018 hackathon.
- **Talks** - Conducted a four-day session on Android Development attended by over **70 students**. Also conducted various talks on open source contribution and hands-on sessions at IIT Bombay.

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<sup>1</sup>Courses taken in Fall 2018