# ABEEN BHATTACHARYA

An Undergraduate Sophomore at IIT-Bombay
Email — GitHub — Website

## SCHOLASTIC ACHIEVEMENTS

- Ranked amongst top **0.6%** out of 1.5 million candidates in the JEE Mains Exam of 2017 and in the **99th percentile** out of 2,20,000 candidates in the JEE Advanced Exam of 2017
- Scored **800/800** in SAT Subject Test - Mathematics Level 2, **780/800** in SAT Subject Test - Physics and **790/800** in SAT - Mathematics and in the **99th** Percentile in all the three tests.
- Awarded AA Grade in Computer Programming & Utilization and Engineering Graphics & Drawing
- Pursuing Minor in **Computer Science and Engineering**

## WORK EXPERIENCE

**Web Intern**                                                        September 2018 - Present
**GTarang Energy Solutions**                                               *Web Development*

A Start-up aimed at providing technologically optimised and accessible clean energy solutions
- **Developed** the entire website with the use of **Django**, a Web Framework written in **Python** and its multiple packages along with a nice blend of **HTML**, **CSS**, **Javascript.** and **Bootstrap.**
- Learnt the importance of writing **clean** and easily **re-usable** code throughout the internship.
- **Coordinated** directly with the co-founders to ensure a **better** and more accurate **user-experience**.

## TECHNICAL PROJECTS

**Mood Indigo Website**                                                    July 2018 - Present
*Web Development*                                                   *Mood Indigo, IIT Bombay*

- Built the frontend of the website using **ReactJS** which also includes **HTML**, **CSS** and **Javascript.**
- **Developed** and **designed** an **entire** website: **Mood Indigo Blogs** using **Django** single-handedly.
- Added **multiple animations** to the website using **Jquery** for a better and exciting user experience.
- Implemented a **sign-up portal** using Google for registration with the help of **APIs** in **Node.js**

**Inter-IIT Tech Website**                                            September 2018 - Present
*Web Development*                               *Institute Technical Council, IIT Bombay*

- Co-ordinated within a **3-member** team responsible for the website of the Inter-IIT Tech Meet 2018
- Developed the website using **Jekyll** and the combination of **HTML**, **CSS** and **Javascript.**
- All the code was **reviewed** multiple times and **perfected** before being pushed to production.

**Material Study: Disassembly of a Dash Charger**               March 2018 - April 2018
*Course Project: Materials and Technology*                          *Prof. Parag Bhargava*

- **Disassembled** a **Dash Charger** and **investigated** all the constituents found after the disassembly.
- **Identified** the parts and the **manufacturing processes** of every part that was disassembled.
- **Discovered** the **functions** of all parts used & the reason behind the **selection** of every material.
- **Presented** the disassembly report to **100+** students and **exhibited** the different components.

**Other Technical Projects include a Chain Reaction Game** *(CS101 Course Project***), a Data Analysis & Interpretation Project** *(MM217 Course Project)* **and a Walking Stick for Blind Men** *(NSS Course Project)* **amongst many more.**

## TECHNICAL SKILLS

**Experienced:**     C/C++, Java, Python, Django, Javascript (with ReactJS), HTML, CSS & git
**Familiar:**         OpenCV, Bash, LaTeX, PHP, MATLAB, Node.js, Origin & Arduino
**Miscellaneous:**    Adobe Premiere Pro, Final Cut Pro X, Adobe After Effects, Adobe Illustrator
Adobe Photoshop & MS-Office

## POSITION OF RESPONSIBILITY

**Web and Coding Club, IIT Bombay**                                      April 2018 - Present
**Volunteer**                                                *Institute Technical Council*

- **Coordinating** events of one of the largest programming clubs in India aimed at inspiring students to take up programming to instill a hobbyist programming culture across the entire institute
- **Developed** a Web and Coding Blogs Website **singlehandedly** to connect aspiring students with the experiences of successful developers and help them learn from the mistakes that they made.
- Guided **100+** students in making their first app using **Scratch** and conducted the **Git/GitHub**, **Machine-Learning** and **Android** workshops to introduce students to the basics of programming.
- One of the Founding Members of the **DevSoc** - Developers' Society to guide students who are getting started with **Open Source** and **Development** and to inculcate great coding habits.
- **Writing** a WnCC Newsletter every week, to share coding related articles with the entire institute.
- **Conducting** events of **GSoC Incubation Cell** to ensure more students participation in GSoC'19.
- Maintaining the **WnCC Website** regularly and keeping it up-to-date for a better user-experience.

**Department of Metallurgical Engineering and Materials Science**     July 2018 - Present
**Web and Design Secretary**                                             *IIT Bombay*

- **Coordinating** with a team of 14 students responsible for all the **proceedings** of the Department.
- Responsible for **maintaining** the Department **Website** and updating the website regularly.
- **Creating** and **managing online elections** for all posts in the department using Gymkhana portal.
- **Designing** the posters for every event, and the design of the department hoodies and tshirts.

**Web & Tech and Horizons & Workshops — Mood Indigo**                 May 2018-Present
**Coordinator**                                                         *IIT Bombay*

Asias largest college cultural festival — Footfall: **141000+** — Events: **210+**
- **Developing websites, apps, portals** for Mood Indigo that receive over **6.5 million** hits yearly.
- **Leading** a team of over **50+** organizers to conduct and execute events in Mood Indigo 2018.
- **Ideating** and **structuring** Humour Fest, the flagship event of Mood Indigo 2018.
- **Negotiating** with renowned Indian artists to showcase 5+ events in Humour Fest 2018.

## EXTRA-CURRICULARS

- **Mentored 150+** students at Codecamp, a **Python, HTML5 & PHP** hackathon conducted by CodePrompt in collaboration with the Web and Coding Club at IIT Bombay.
- **Shot and edited** a Music Video Entry for Arcade Competition '17 which bagged the **5th position**
- **Line follower & Maze runner bot**: Built a micro controller processed autonomous bot which follows a line on a surface and solves a maze using infrared and ultrasonic sensor, based on Arduino.
- **XLR8 2017** : Constructed a robotic car for a racing competition using Arduino Uno for its functioning, L293D motor driver for control and a HC-05 bluetooth module for wireless communication.
- **Mentored** a group of 4 students for building their remote controlled bot in **XLR8 2018**