

# ABEEN BHATTACHARYA

An Undergraduate Sophomore at **IIT-Bombay**

**Email** — **GitHub** — **Website**

## SCHOLASTIC ACHIEVEMENTS

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- 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

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### Web Intern

September 2018 - January 2019

### 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

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### Mood Indigo Website and Native Application

July 2018 - December 2018

*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.
- Created a **Native Application** using **React-Native** which had more than **5000** downloads.

### Inter-IIT Tech Website

September 2018 - December 2018

*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

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**Experienced:** C/C++, Java, Python, Django, Javascript (with ReactJS), HTML, CSS & git  
**Familiar:** OpenCV, Bash, L<sup>A</sup>T<sub>E</sub>X, PHP, MATLAB, Node.js, Origin, Keras, & TensorFlow  
**Miscellaneous:** Adobe Premiere Pro, Final Cut Pro X, Adobe After Effects, Adobe Illustrator  
Adobe Photoshop & MS-Office

## POSITION OF RESPONSIBILITY

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**Web and Coding Club, IIT Bombay**  
**Manager**

April 2019 - Present  
*Institute Technical Council*

- Lead a team of 20 sophomores, part of one of the biggest college technical clubs in India, to cultivate and sustain a hobbyistic programming culture and conduct activities in the 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 - April 2019  
**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**  
**Coordinator**

May 2018-December 2018  
*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

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- **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**