



**Amey Gohil**  
**Mechanical Engineering**  
**Indian Institute of Technology, Bombay**

**170100019**  
**B.Tech.**  
**Gender: Male**  
**DOB: 23-03-1999**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	
Intermediate	HSC	Pace Junior Science College	2017	88.15%
Matriculation	ICSE	North Point School	2015	90.17%

## SCHOLASTIC ACHIEVEMENTS

- Achieved **97.86** percentile in All India JEE Mains Examination amongst **1.2** million aspiring candidates [2017]
- Secured **96** percentile in All India JEE Advanced Examination amongst **1.6** lac participating candidates [2017]
- Selected as a **Software Development Intern** at **NoBroker** through Placement Cell IIT Bombay [2019]
- Pursuing a **minor degree** in the department of **Computer Science and Engineering** [Present]

## WORK EXPERIENCE

**Software Development Intern** | *ITS Planners & Engineers* [Apr '20 - Jun '20]  
*Awarded **Letter of Recommendation** from CEO of ITSPE for exemplary performance during the intern*

- Formulated **API's** to **automate** the process of bus allocation, swap, substitution and auto-assignment among blocks
- Used **Leaflet JS** and **PostgreSQL** to display route network on a map with controls to edit and save the network
- Ideated and implemented **database schema** to store bus details and variable OD matrices with hourly proportion
- Programmed a code in **python** to generate schedule delay alerts by analyzing the GPS and schedule data of buses
- Designed a page to calculate estimated travel time between stops through functions in **AJAX, PHP** and **python**
- Implemented functions to display and import/export geographical zones as shape files using **PostgreSQL** queries
- Developed UI's and API's to control vehicle operations (maintenance, fuel meter, PUC) majorly in **AJAX** and **PHP**

**Web Manager** | *The Entrepreneurship Cell, IIT Bombay* [Mar '19 - Mar '20]  
*Awarded **Institute Organisational Special Mention** (1 out of 22 members) for exemplary contribution*

- Part of a team responsible for **2** International and **7** National initiatives | Patronage from **UNESCO**, **Startup India**
- Managed & developed **9** major websites with **40+** pages, keeping them **SEO Optimised** and **mobile responsive**
- Led a 2-tier team of **20+** juniors in updating websites of E-Cell, that receives an annual hit score of over **4 million**
- Pioneered a portal to streamline the process of sending E-Certificates to **10k+** eligible attendees, saving **50%** time
- Developed a portal for Eureka! Junior, to **automate** time-based submission of tasks and manage **8000+** submissions
- Redesigned and debugged the website of **NEC\*** and the social media implemented registration portal of **Eureka!\*\*\***
- Designed the main website, **15+** sub-pages & developed **5+** admin portals for **Entrepreneurship Summit 2020\*\***
- Built EnSpace - Website with a Catalogue of **100+** Videos, **80+** Blogs, **50+** Case Studies on Entrepreneurship

\***NEC**: A pan-India initiative which established Entrepreneurship Cells in **150+** colleges in the 2019 edition

\*\***E-Summit**: Asia's largest student-organised entrepreneurship conclave having a footfall of **30 thousand**

\*\*\***Eureka!**: Asia's largest B-model competition with **11.5k+** entries in 2019 & prizes worth **INR 5 million**

**Web Nominee** | *Student Mentorship Program* [Apr '20 - Present]  
*The program enables constructive interaction, guidance, and mentorship of junior students by their seniors*

- Developed a dynamic portal to streamline the peer review process of **250+** students, saving **100+** man-hours
- Built an admin portal to **control** the status of review forms and **initialize** the database through a CSV matrix
- Created and implemented **database schema** to store the matrix for peer reviews and download it as CSV
- Solely managing SMP website, used as publicity among prospective freshmen students, **16k+** users | **113k+** hits

**Web and Creatives Coordinator** | *Techfest, IIT Bombay* [Jul '18 - Jan '19]  
*Asia's Largest Science and Technology Festival | Footfall of **1,75,000+** | **150+** events*

- Assisted in designing and developing the **Mobile Responsive** and **SEO Optimised** website for Techfest
- Collaborated in keeping the main website of Techfest updated, that receives an annual hit score of over **3 million**
- Designed and developed the website of Innovation Challenge 2018, which has a participation of **300000+** students
- Significantly contributed to the design and development of main website of Techfest International **AI Summit**
- Executed AI Summit which comprised of **5** keynote sessions, **2** workshops and **2** panel discussions in a team of **3**

## KEY PROJECTS

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**Virtual Trade Fair** | *Technical Lead, Amanha Idealabs* [Jul '20 - Aug '20]

*Awarded **Letter of Recommendation** from Founder of Amanha Idealabs for exemplary performance*

- **Project:** Web platform to represent exhibition and conference, providing a complete experience of a real trade fair
- Ideated and implemented **database schema** in MySQL to store user details, payment transfers, meeting ids, etc
- Implemented a **secure** end-to-end **payment gateway** for the registration of attendees using **RazorPay API**
- Utilized **enablex API** to implement multiple concurrent one-on-one and one-on-many video streams and chats
- Integrated an **input-responsive chat bot** built using Botman PHP framework to answer various queries
- **Mentored** a team of junior interns in developing various elements while teaching them basics of web development
- Responsible for website hosting through **LAMP** stack, installing **SSL** Certificate and registering the **domain name**

**E-Summit App** | *The Entrepreneurship Cell, IIT Bombay* [Dec '19 - Feb '20]

*E-Summit is Asia's largest student-organised entrepreneurship conclave having a footfall of **30 thousand***

- Created a standalone **android** application to display the details of all the events and competitions at E-Summit
- Developed an aesthetically pleasing **UI** in **React Native** and formulated back-end APIs and models in **Django**
- Ideated and implemented functions to **save** events as favourite, **filter** events by location and show floor maps

**Live Chat** | *Self Project* [Jul'20 - Aug'20]

- Built a server using **Server-Sent Events** in PHP to set up a constant unidirectional connection for **realtime** chat
- Developed an **interactive** UI using Materialize CSS and ideated the **database schema** to handle users, chats, etc.
- Installed a **cron job** to execute a **shell script** for restraining the apache server to avoid any hanging connections
- Implemented various features including register/login, **recaptcha**, group chat, **dark mode** & play mini games

**Industrial Visit** | *Course Project* [Jun'18 - Nov'18]

*Guide - Prof. Parag Bhargava, MEMS Dept, IIT Bombay*

- Visited and explored **Rampura Steel Industries**, Badlapur (one of the **oldest** Bright Steel Bar manufacturing companies in INDIA and operating for over **40** years) and **John Galt International**, Badlapur (a **National Award Winning, ISO 9001** certified engineering and fabrication company with **35+** years in existence)
- Studied the manufacturing and processing of **Bright Steel Bars** through **cold working** and **annealing**
- Examined the **rolling** of metal sheets with the help of rolling machines & Overhead Cranes, metals sheet cutting through **Gas Cutting** and **Computer Aided Plasma Cutting** and a machine generating pressure up to **400** bar

## TECHNICAL SKILLS

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**Development** - HTML5, CSS3, AJAX, Bootstrap, jQuery, Materialize, React, Django, Leaflet, Databases

**Programming Languages** - C/C++, Python, PHP, JavaScript, SQL, PostgreSQL

**Familiar Tools** - Git, Matlab, AutoCAD, SolidWorks, ADAMS, AWS, OpenGL, Mathematica, L<sup>A</sup>T<sub>E</sub>X

## RELEVANT COURSES

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<i>Inter-Department</i>	Computer Programming and Utilisation, Data Structures and Algorithms, Computer Graphics, Introduction to Machine Learning, Introduction to Electrical Circuits and Electronics, Economics, Psychology, Environmental Studies, Introduction to Biology
<i>Department</i>	Engineering Data Mining and Applications*, Optimising Models*, Acoustic Devices*, Machine Design*, Computer Integrating Manufacturing, Robotics, Industrial Engineering and Operations Research, Kinematics and Dynamics of Machines, Microprocessors and Automatic Control, Heat Transfer, Fluid Mechanics, Solid Mechanics
<i>Mathematics</i>	Calculus, Differential Equations, Linear Algebra, Introduction to Numerical Analysis

(Courses with \* are yet to be completed)

## EXTRACURRICULARS

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- Successfully mastered the fundamentals of Guitar under an year-long course of **NSO Guitar** [2017 - 2018]
- Conducted a marathon (**500+** attendance) and a panel discussion to spread awareness on **Autism** [2019]
- Learnt and built a Remote-Controlled Plane, for competing in the annual flight competition (50+ teams) [2017]
- Participated in the **Cross-Country GC**, an Institute level event with a participation of **600+** students [2017]
- Organised Boeing Aeromodelling competition at Techfest, overseeing a participation of over **200** teams [2017]
- Contributed majorly in the execution of the **SoUL Project** of IIT Bombay, entering the **Guinness World Records** for lighting the most number (**5700+**) of solar LED lamps together [2018]
- **Mess Secretary** | *Hostel 6, IIT Bombay* [2018]
  - Elected as the Mess Secretary among **140** candidates, optimized functioning of mess for **400+** people
  - Negotiated with hostel inmates and mess vendor to optimize and manage a monthly total of INR **135k**