

Jagjit Singh Bhumra

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EDUCATION

K.J. Somaiya College of Engineering

Mumbai, Maharashtra

Bachelor of Technology in Computer Engineering

Expected May 2025

- **CGPA:** 9.92 / 10.0
- **Honours:** – Highest marks (in percentage) achieved across semesters.
 - Stood 1st in Game of Math (city-wide contest) organised by Emfinity KJSCE.
 - Acquired 100% in Engineering Mathematics in Semester 3.
- **Relevant Coursework:** Undertaking a Cybersecurity Honors course alongside regular academics.

T.P. Bhatia Junior College

Mumbai, Maharashtra

HSC 10+2 (High School Certificate)

June 2021

- **Boards:** 96.6%
- **Honours:** – College Topper consistently for both years.
 - Represented college at state-level science exhibitions.
- **Relevant Coursework:** Attended additional courses/webinars alongside general curriculum.

D.G. Khetan International School

Mumbai, Maharashtra

Class 1 - 10 (Cambridge IGCSE curriculum)

May 2019

- **Grade:** 8 A* (in 8 subjects total)
- **Honours:** – Top in the World in IGCSE Mathematics
 - School Topper for achieving A* in highest number of subjects
 - Educational Head of Student Council
- **Relevant Coursework:** Achieved A* in Business Studies and ICT IGCSE subjects.

PROJECTS & INTERNSHIP EXPERIENCE

TEDxSomaiyaVidyavihar Internship

Mumbai, Maharashtra

Web Developer (Team of 2) December 2021 – Present

- Redesigned the entire TEDxSomaiya website from scratch:
 - Worked on making website frontend attractive yet intuitive for users.
 - Took inspiration from various CodePen references, and implemented with a 'TEDx' twist.
 - Constructed Django backend (previous year) and MERN-based website (current year) from scratch, with an easy admin interface to allow blog updates.
 - Web pages made responsive for screens of all sizes, for a seamless user-interface.

Engineering Mechanics Virtual Lab Internship

Mumbai, Maharashtra

(Team of 3) June 2022 – October 2022

- Created a virtual lab experiment regarding mechanics:
 - Programmed entirely in vanilla HTML, CSS and JS except for a graph-plotting JS library.
 - Allows user input for force and distance measurements using numeric input as well as sliders.
 - Learnt theory behind concept, and added post-lab questions personalised to input measurements.
 - Automatic construction of shear-force and bending-moment diagrams according to input.
 - Works on both cantilever and simply-supported beams.

Geospatial Systems In-house Internship

Mumbai, Maharashtra

(Team of 2) October 2022 – Present

- Learning working and usage of ArcGIS software system:
 - Learnt use of the application from the ground up (now delving into NDVI).
 - Explored and tried out various features of the system, and applied to small projects.
 - Worked in a team to map out the Somaiya campus pathways, along with points of interest.
 - Worked out the best pathways to be used for connecting POIs using the network analysis feature.

Inventory Management Internship

Mumbai, Maharashtra

(Team of 2) June 2023 – Present

- Implemented an inventory management system for the college:
 - Understood requirements and use-cases of the application, and built from the ground up.
 - Used vanilla HTML, CSS, JS, with PHP and SQL backend (for optimal performance).
 - System allow for management of various types of inventory as well as keeping track of their maintenance status, lending/borrowing transactions, and notes (if any).

Darwin Internship (BioRiidl)

Mumbai, Maharashtra

(Team of 2) August 2023 – Present

- Redesigned existing Darwin event website:
 - Understood requirements and use-cases of the application, and learnt necessary technicalities.
 - Learnt Airtable and cPanel hosting, and implemented data fetch/push using appropriate API calls.
 - Made several UI improvements, increased general website responsiveness and interactivity, removed unused/unnecessary code blocks and packages previously present.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English, Hindi and Punjabi

Technical Skills: → Proficient in C, Python, HTML, CSS, JavaScript
→ Well-versed in WordPress, Wix, Figma, JS/Python libraries
→ Dabbled in Java, C++, MERN stack, React Native

Certifications & Training: HackerRank:

- > Python (5*)
- > C (4*)
- > C++ (3*)

Ongoing certifications on Coursera and Udemy

Activities: Developed a self-tracking camera aimed towards educational/commercial use, using OpenCV and Arduino, as part of a mini-project in a team of 4.

Interests: Rubik's cubes, chess, gaming, cricket, reading, and anything tech-related.