

## Professional Experience

<b>Teaching Assistant</b>	<b>Indian Institute of Technology Bombay</b>	Aug 2023 – Nov 2023
Course: CS101, Computer Programming and Utilization		
<ul style="list-style-type: none"><li>Guided students in learning programming concepts in C++, facilitating their understanding of the subject</li><li>Awarded with "Excellence in Teaching Assistantship", troubleshoot XServer and WSL setup for 200+ students</li></ul>		
<b>Full Stack Developer</b>	<b>Trubuddyy Solutions Pvt. Ltd.</b>	Jul 2023 - Aug 2023
<ul style="list-style-type: none"><li>Developed a mentor <b>search</b> system with <b>best match</b> sorting for using <b>fuzzy string matching</b> and <b>weights</b></li><li>Automated <b>Zoom</b> meet scheduling, <b>Whatsapp</b> and <b>SMS</b> reminders using <b>Twilio</b>, and <b>Stripe</b> Payments</li></ul>		
<b>Frontend Developer</b>	<b>Application Software Centre, IIT Bombay</b>	May 2023 – Jul 2023
<ul style="list-style-type: none"><li>Researched and Engineered a micro-frontend architecture enabling independent development teams for MyIITB</li><li>Developed support for 5+ JavaScript frameworks, including Angular, React, and SystemJS using Single-SPA</li></ul>		

## Education

<b>Indian Institute of Technology, Bombay</b>	Mumbai, Maharashtra
Dual Degree (B.Tech & M.Tech) in Electrical Engineering [CPI 7.86/10],	Graduating: 2026
Minor Degree in Computer Science and Engineering	
Relevant Coursework: Digital Signal Processing, Image Processing, Computer Vision, Advanced Image Processing, Communication Systems, Data Structures & Algorithms, Design & Analysis of Algorithms, Logic in Computer Science, Introduction to Machine Learning, Code Optimization for Object-Oriented Languages,	

## Technical Projects

<b>Mess-I: Mess Digitalization System</b>   DevCom IIT Bombay	May 2023 – Present
<ul style="list-style-type: none"><li>Led the development of the official mess management system of IIT Bombay with 10,000+ daily active users</li><li>Deployed the system in 14 out of 16 hostels, in 20+ mobile devices, recording 4,000,000+ meals and 16K+ users</li></ul>	
<b>MongoDB Google Drive Backups</b>   DevCom, IIT Bombay	Jul 2024
<ul style="list-style-type: none"><li>Developed a Python library to save compressed and encrypted MongoDB backup files on Google Drive</li><li>Implemented file hash (SHA-265) verification to ensure file integrity and prevent tampering</li></ul>	
<b>Java Program Analysis using Soot</b>   Prof. Manas Thakur, IIT Bombay, CS6004	May 2024
<ul style="list-style-type: none"><li>Utilized Soot framework for various inter and intra-procedural analysis for Java programs and bytecodes</li><li>Programmed an analysis transformer to remove redundant null checks from a Java program and generate transformed class and jimple files. Used Eclipse OpenJ9 JVM to track performance improvement.</li></ul>	

## Position of Responsibility

<b>Overall Coordinator</b>	<b>DevCom, IIT Bombay</b>	Apr 2024 – Present
<ul style="list-style-type: none"><li>Leading a team of 30+ designers and developers responsible for maintaining the crucial digital infrastructure of IIT Bombay. Overseeing software design, development, deployment, and maintenance.</li><li>Assisted system administrators and Computer Center IITB in resolving IP conflict in gymkhana servers affecting 10K+ residents Upgrading proxmox ve to version 8 and monitoring lxc-container health.</li></ul>		

## Skills & Interests

### Development

**Proficient:** Dart, Flutter, Python, C++, React, JavaScript, Django, Flask, Micropython

**Familiar:** VHDL, Soot, TypeScript, NextJS, Angular, Vue, MATLAB, JAVA, OpenCV, Selenium

**Tools:** Umami, Sentry, New Relic, Proxmox, Docker, Linux, Algolia, Elastic search, MongoDB, AWS, GCP

**AI/ML tools:** LLaMa-2, YOLOv5, FAISS, Chain-Lit, Langchain

**Interests:** Drama, Theatre, Music, Fine Arts, Literature

- Achieved 2nd position in inter-hostel stage play and street play competitions in 2022-23.
- Represented IIT Bombay in InterIIT Cultural Meet 5.0 in the dramatics contingent, scoring 2nd overall.