

IIT Bombay, Mumbai
Maharashtra, India - 400076

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Professional Experience

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| Teaching Assistant | Indian Institute of Technology Bombay | Aug 2023 – Nov 2023 |
| Course: CS101, Computer Programming and Utilization | | |
| <ul style="list-style-type: none">• Guided students in learning programming languages and concepts in C++ conducting 10+ lab sessions• Awarded with "Excellence in Teaching Assistantship", troubleshoot XServer and WSL setup for 200+ students | | |
| Full Stack Developer | Trubuddyy Solutions Pvt. Ltd. | Jul 2023 - Aug 2023 |
| <ul style="list-style-type: none">• Developed a mentor search system with best match sorting for using weighted fuzzy string matching• Automated Zoom meet scheduling, Whatsapp and SMS reminders using Twilio, and Stripe Payments | | |
| Frontend Developer | Application Software Centre, IIT Bombay | May 2023 – Jul 2023 |
| <ul style="list-style-type: none">• Engineered a micro-frontend architecture enabling independent development teams to work for MyIITB• Developed support for 5+ JavaScript frameworks, including Angular, React, and SystemJS using Single-SPA | | |

Education

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| Indian Institute of Technology, Bombay | Mumbai, Maharashtra |
| Dual Degree (B.Tech & M.Tech) in Electrical Engineering, | 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, Microprocessors, Digital Systems, Communication Systems-I, Probability and Random Processes, Markov Chains and Queuing Systems | |

Technical Projects

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| Mess-I: Mess Digitalization System DevCom IIT Bombay | May 2023 – Present |
| <ul style="list-style-type: none">• Led the development of the official mess management system of IIT Bombay with 10,000+ daily active users• Deployed the system in 14 out of 16 hostels, in 20+ devices, recording 4,000,000+ meals and 16K+ users | |
| MongoDB Google Drive Backups DevCom, IIT Bombay | Jul 2024 |
| <ul style="list-style-type: none">• Orchestrated a Python library to save compressed and encrypted MongoDB backup files on Google Drive• Implemented file hash (SHA-265) verification to ensure file integrity and prevent tampering | |
| Java Program Analysis using Soot Prof. Manas Thakur, IIT Bombay, CS6004 | May 2024 |
| <ul style="list-style-type: none">• Programmed an analysis transformer using Soot framework to remove redundant null checks in Java code• Recorded a performance increment of around 1400 ms after transformation using Eclipse OpenJ9 JVM | |

Position of Responsibility

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| Overall Coordinator | DevCom, IIT Bombay | Apr 2024 – Present |
| <ul style="list-style-type: none">• Led a team of 30+ designers and developers to maintain and enhance IIT Bombay's digital infrastructure• Resolved IP conflicts in servers by collaborating with Computer Centre, benefiting 10,000+ residents• Upgraded Proxmox VE to version 8, ensuring better performance and reliability of servers and LXC containers | | |

Skills, Interests & Extra Curriculars

Development:

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

Familiar: VHDL, TypeScript, NextJS, Angular, Vue, MATLAB, Bash JAVA, Soot, OpenCV, NumPy

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

AI/ML tools: LLaMa-2, YOLO, FAISS, Chain-Lit, Langchain, Scikit-Learn, Torch, Keras

Extra Curriculars:

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