



Kshitij M Gajbhiye

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B.Tech - Electronics and Electrical Engineering

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Github | Portfolio | LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.29 (Current)	2022-Present
Senior Secondary	CBSE Board	96.6%	2022
Secondary	CBSE Board	95.2%	2020

EXPERIENCE

- Samsung R&D Institute, Delhi** May 2025 - July 2025
SDE Intern Intern
 - Developed expertise in computer graphics pipelines and **OpenGL** rendering by implementing textured 3D objects, mastering shader programming, VBO/VAO management, and texture mapping techniques
 - Engineered custom stereo rendering features in Dagor Engine through C++ source code modification, ImGui integration, and .blk configuration analysis for autostereoscopic 3D display systems
 - Utilized **RenderDoc** graphics debugger for frame-by-frame analysis of OpenGL rendering, enabling efficient debugging and performance optimization of 3D scenes

PROJECTS

- Memories Website** May 2024
Personal Project Github | Website
 - Developed a **NodeJs** based web application that enables users to share and preserve their memories. Engineered the frontend with **ReactJs**, **Tailwind CSS**, and **Material UI** and utilized **Redux Toolkit** for state management.
 - Features:** Implemented pagination, comment functionality, memory search, authentication using **JWT** and **Google OAuth**, as well as the ability to like, delete, and edit memories.
 - Performance Optimization:** Enhanced the **memory liking feature** by reducing the response time from **3-4 seconds** to under **0.2 seconds**, significantly improving user experience.
 - Tech Stacks:** ReactJs, Tailwind CSS, **MaterialUI**, Redux, **Axios**, NodeJs, ExpressJs, MongoDB, Cloudinary
- Robotics 101 Course Website** May 2024 - June 2024
Robotics Club, IIT Guwahati Github | Website
 - Developed a comprehensive educational platform to provide various robotics-related courses, including **IoT**, **ROS**, **OpenCV**, and **Fusion 360**.
 - Features:** Implemented smooth transitions between different courses, integrated the **YouTube API** to fetch the video titles and utilised **JSON data** for dynamic rendering.
 - Tech Stacks:** HTML, ReactJs, Tailwind CSS
- Currency Converter Extension** June 2024
Personal Project Github
 - Developed a **MANIFEST V3** Chrome extension to convert currencies into native currency, supporting **161 different currencies** to ensure global usability.
 - Utilised **ExchangeRate API** to fetch latest exchange rates and performed **DOM manipulation** to inject the converted prices into the active website.
 - Tech Stacks:** HTML, CSS, JavaScript, ReactJs

TECHNICAL SKILLS

- Programming Languages:** C, C++ , JavaScript
 - Web Technologies:** HTML, CSS/Tailwind, ReactJS, NodeJS*
 - Database:** MySQL, MongoDB*
 - Operating System:** Windows, Linux*
 - Miscellaneous:** GIT, Fusion 360, Arduino*
- * Elementary proficiency

ACHIEVEMENTS

- Branch Change:** Changed branch from **Mechanical Engineering** to **Electronics and Electrical Engineering**. 2023
- Inter IIT Tech Meet 12.0:** Secured **Silver Medal** in low prep Product Design Challenge among **22 IITs**. 2023
- Kriti 2024:** Secured **2nd position** in the **Buggy Escapade** PS at the Inter-Hostel Technical Competition. 2024
- JEE Advanced 2022:** Secured **AIR 4524** out of **1.5 lakh** candidates. 2022
- CGPET 2022:** Secured **4th** rank in state PET. Topped in District. 2022
- Nationals:** Participated in **State** and **National** Level Lawn Tennis Competition. Secured **1st position** in 17-th State level Lawn Tennis tournament. 2017 - 2020

KEY COURSES TAKEN

- Computer Science:** Introduction to Computing (Theory and Lab)
- Mathematics:** Linear Algebra, Basic Calculus, Probability and Random Processes
- Electronics Core:** Digital Electronics, Signals and Systems, Blockchain Science and Technology

POSITIONS OF RESPONSIBILITY

- Web Development Head:** Robotics Club, IIT Guwahati Apr. 2024 - Present
 - Responsible for management and development of various websites for Robotics Club and coordinate with the design team to design and implement website layout.