Kshitij M Gajbhiye

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B.Tech - Electronics and Electrical Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.28 (Current)	2022-Present
Senior Secondary	CBSE Board	96.6%	2022
Secondary	CBSE Board	95.2%	2020

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** for a modern and efficient design. Utilized **Redux Toolkit** for state management and managed the database with **MongoDB, Multer,** and **Cloudinary API**.
  - **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 Convertor 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:** 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

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.