Bhaskar Mandal

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EDUCATION

Indian Institute of Technology, Hyderabad Hyderabad, India
Bachelor of Technology in Materials Science and Metallurgical Engineering *Oct. 2022 – Present*

Mozampur HSSB High School Malda, India
High School *Jul. 2020 – Apr. 2022*

Kaliachak Abasik Mission Malda, India
High School *Jan. 2017 – Feb. 2020*

EXPERIENCE

App Dev Head at Lambda (Software Development Club) May 2024 – Present
Indian Institute of Technology, Hyderabad *Hyderabad, India*
- Rewrote the IITH Dashboard from a PWA to a Flutter app, resulting in increased overall satisfaction from the student community.
- Migrated the cab-sharing website to the new dashboard app, ensuring seamless integration and improved user experience.
- Building and maintaining websites for the SciTech clubs.
- Leading a team of 25 cores to work on projects.

Web Head at E-Cell IITH May 2024 – Present
Indian Institute of Technology, Hyderabad *Hyderabad, India*
- Built a portal for a hackathon will be conducted by E-Cell in collaboration with NPCI.
- Working on implementation of a new E-Cell website.
- Leading a team of 4 managers and working with them.

Core at Lambda (Software Development Club) July 2023 – April 2024
Indian Institute of Technology, Hyderabad *Hyderabad, India*
- Worked on new implementation of IITH Dashboard frontend and auth part.

App-Web Team Member at Sunshine (Counselling Cell) Jun 2023 – April 2024
Indian Institute of Technology, Hyderabad *Hyderabad, India*
- Built an app for Sunshine, IITH. Its basically Flutter app which use Dialogflow for ChatBot feature and Firebase for database (RTDB) and auth.
- Worked on new implementation of the main website.

Frontend Developer at PicaPool
Indian Institute of Technology, Hyderabad *Hyderabad, India*
- Worked as a frontend developer, and built two apps PicaPool and PicaPool Partner.
- Worked on new implementation of the main website.

PROJECTS

URL Shrink | *Source Code* | *Go/Gin, ReactJs, PostgreSQL*
- A web application designed to shrink large URLs and track the number of clicks on the generated short URLs.
- Developed using Go/Gin as backend framework, PostgreSQL as database and ReactJS for frontend.
- Cookie-based Google authentication for secure user access. And a subdomain utilization for efficient redirection.

Hackathon Portal | *hackathon.bhaskaraa45.me* | *Go/Gin, ReactJs, PostgreSQL, Supertokens*
- Developed a comprehensive portal for conducting a hackathon organized by E-Cell, IIT Hyderabad in collaboration with NPCI. The portal features both participant and admin interfaces to facilitate smooth event management.
- Utilized Next.js and Tailwind CSS for the frontend development. and Go-Gin framework and PostgreSQL for backend and database respectively.
- Implemented secure authentication using Supertokens.

ChatHub | *Source Code* | *Flutter, Go Lang, FCM, Socket.IO*

- ChatHub is designed to offer secure and efficient communication across multiple platforms.
- Used Flutter for frontend, GoLang (gorilla/mux) for backend and PostgreSQL for database. And proper FCM (Firebase Cloud Messaging) implemented for notifications.
- Implemented secure authentication using Supertokens.

TicTacToe | *tictactoe.bhaskaraa45.me* |*Source Code* | *Go/Gin, ReactJs, PostgreSQL*
- Multiplayer(2) tic tac toe online game.
- Developed using Go-Gin frameworks as backend with Socket.IO for real time communication and React.JS for frontend.

Code Revision |*Source Code* | *Java, XML, Firebase*
- This is an android app, allows users to save, categorize, and revisit problems, along with features to add tried and wishlisted questions for better organization and revision.
- Developed using Java and XML for the frontend and used Firebase for auth and database (RTDB).

Technical Skills

Languages: Go, Java, Python, C/C++, Dart, SQL (Postgres), JavaScript, Typescript, HTML/CSS
Frameworks: Flutter, NextJS, Go-Gin, FastAPI, Node.js, Tailwind CSS
Developer Tools: Git/GitHub, Linux, Firebase, Google Cloud Platform, Docker, Microsoft Azure, Vercel, Cloudflare
Libraries: React JS, Express JS, NumPy, Matplotlib, Pandas