

Meghna Bal

✉ meghnabal70@gmail.com

🌐 <https://www.linkedin.com/in/meghna-bal/>

☎ +91-6290447145

🔗 <https://github.com/meghna70>

EDUCATION

• Kalinga Institute of Industrial Technology, Deemed University

2020 - 2024

Computer Science And Engineering, B.Tech

CGPA: 8.89

SKILLS

Languages & Frameworks:	HTML, CSS, JavaScript, C++, Python, Java, TypeScript, React, React Native, Next.js, SQL
Frontend Tools	Chrome Dev tools, Redux, Tailwind CSS, Bootstrap, Styled Components
Version Control	Git, GitHub
Deployment and Cloud Platform	AWS, GCP, Netlify, Vercel

EXPERIENCE

• CareerCarve

June 2023-Current

Frontend Developer

Bangalore

- Worked with **React Native** and **Expo Client** while using **Kotlin** and **Android SDKs** to create a **cross-platform** app.
- Work closely with UI/UX designers to implement Figma designs to enhance interactive features and improve user experience
- Worked on performance optimization of legacy code, helped in brainstorming innovative solutions leading to increased user engagement and achieving **5000+** downloads on the app store.
- Developed scalable and maintainable web applications in **React** for 1x1 mentor and student sessions, ensuring seamless user experience and optimized application performance.
- Maintained high code quality with best practices, and utilized Git for version control.
- Automated **mentor allocation, status tracking, feedback provision, and mentor re-booking** through **RESTful APIs**, in order to render a seamless and full-fledged user experience.
- Implemented **Firebase Analytics** to systematically record and analyze user interactions, including click-through rate (CTR), app state transitions, and media usage metrics. Utilized event tracking for insights into user behavior patterns.
- **Technologies used:** ReactNative, Firebase, React.Js, AWS, GCP, Gradle, Expo, Android Studio, Node.Js, MySQL

• K3 Digital

Jan 2023 - June 2023

Full Stack Developer

Bhubaneswar, India

- Created an Employee Resource Management system using **React.js**, **Node.Js**, and **MongoDB**
- Wrote clean and efficient code with animation and responsiveness
- Developed **billing, payment, and resource tracking** features for university staff across various departments within the the K3 Resource Manager, streamlining documentation and expense tracking processes.

PERSONAL PROJECTS AND PUBLICATIONS

• ByteBox

<https://github.com/meghna70/bytebox>

- A Firebase-powered file storage platform where user can upload and access files securely, with easy downloads.
- Simplifies file management with a user-friendly interface.
- **Technologies used:** Next.js, TypeScript, Firebase, Zustand, Shadcn UI

• MovieBox (a GPT RAG based movie recommendation system)

- This application recommends users with similar movies based on either pre-selected movies or searched keywords.
- Performance Optimization by implementing user-friendly interfaces using Tailwind and Material UI, and rendering with lazy loading and pagination, and ensuring seamless integration with the RAG pipeline.
- Implemented a miniature RAG pipeline with re-ranking.
- **Technologies used:** Vite+React, Python, MongoDB, LanceDB, Tailwind, Material UI

• Published in IEEE: Brain Tumor Detection and Classification Using a Hyper-parameter Tuned CNN

<https://ieeexplore.ieee.org/document/10397907>

- Researched and implemented various **CNN** models for brain tumor detection using MRI scans, comparing their accuracy. Identified the proposed model as superior, achieving **94.82%** accuracy, outperforming alternative models