

Barsha Paul

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[Medium](#) [Leetcode](#) [Tuf+](#) [LinkedIn](#)

Experience

Junior Software Engineer

Exos Systems (Hubar Tech Limited) | Dhaka, Bangladesh (Hybrid) | 06/2023 - 07/2024

- Played an integral role in developing **Point of Sale** (POS) application used by CWS (Seychelles) handling **3000+** transactions a day.
- Developed dynamic and responsive UI for applications like **Product Cart Management** (PCM) and **E-Bill services**.
- Worked on several backend API's (**REST**) for integrating features like top-up, multi-payment transactions, till management, billing services, report generation etc.
- Contributed to the UI development using **React JS, TypeScript, Material UI, React Query, Redux, React MUI Table, REST API, React Hook Form** etc.
- Optimized application performance using several optimizing mechanisms like **debouncing, lazy loading, react query caching, API batching, context API, code splitting** etc. **Reduced latency** on average from **8s** to **1s**.
- Involvement in thorough **unit, integration** and **end-to-end** test, resolved several critical **bugs** to ensure smooth production activity.
- Ensured **Cross-Browser** compatibility throughout the applications to provide seamless experience to the end-user.
- Refactored** multiple codebases into modular and **functional** programming to maintain code quality and consistency.

Software Engineer Intern

Anwar Group Of Industries | Dhaka, Bangladesh | 11/2021 - 03/2022

- Collaborated with Anwar cement group content writing team to transform their ideas into Website that includestheir company details, field of work, work culture, accomplishments.
- Tech- **HTML, CSS, JavaScript, Bootstrap**.

Technical Skills

Languages: C/C++, JavaScript ES6+, Python.

Frontend: HTML, CSS, ReactJS, TypeScript, Material UI, Tailwind, Bootstrap

Backend: NodeJS, ExpressJS, REST-API.

Database: SQL (MySQL), NoSQL (MongoDB).

AI-Tools & Tech: OpenAI, AI Prompt Engineering, Cursor IDE, GitHub Copilot.

Others: Git/GitHub, Agile (Scrum), Firebase, Vercel, Render, SEO Optimization.

Education

Masters in Computer Application

Chandigarh University | Chandigarh, India | 05/2023

Bachelor in Computer Application

Mody University | Rajasthan, India | 07/2021

Projects

AI Powered Priority-Task Management | [Live](#)

- Built a Priority Management Application using OpenAI-API custom prompt engineering that automatically assigns priority levels of the tasks based upon given description, urgency, importance, and time sensitivity. Used Firestore database for instant data updates across multiple devices with Firebase auth for user-authentication and Vercel for application deployment.
- Tech: **ReactJS, TailwindCSS, OpenAI-API, Firebase, Vercel**

Emotion-Based Music Recommendation System | [Live](#)

- Created a Music Recommendation System using face-api.js and pretrained neural-network models to capture real-time facial muscle positions, expression classification, mapping emotions and suggest songs based upon that using open-source spotify-API. Used render for deployment of both client and server side.
- Tech: **ReactJS, TailwindCSS, Spotify-API, ExpressJS, Render**

Achievements

- Participated in **Water Hackathon** organized by IRC and BRAC along with **244+** applicants.
- Solved **300+** coding problems across multiple platforms like LeetCode, NeetCode, gfg etc.