Jahir Raihan Joy

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SUMMARY

I'm a curious software engineer who loves tackling challenges and building efficient, real-world solutions. Always excited to learn new things and improve my skills. I thrive in collaborative environments and enjoy working on projects that make a real impact. Current stack is **Python, Javascript, Django, DRF, FastAPI, React, Sass** and is always open to new technologies.

SKILLS

Python, Javascript, Django, FastAPI, Html, Css , Sass, Git , Github, Sql, **Django Rest Framework, API, UnitTesting, TailwindCSS, Vue.js,** React

CONTEST & PROBLEM SOLVING ACTIVITIES

- Solved **500+ problems** on platforms including <u>LeetCode</u>, <u>CodeChef</u>, <u>HackerRank</u>, <u>Toph</u> <u>Codeforces</u>.
- ICPC 2023 regional finalist, Code Samurai 2022 finalist, ITVerse Datathon 2023 finalist.
- Participated in **Google Gemini Api Developer Contest, BD Apps hackathon and Quant hackathon.**

PROFESSIONAL EXPERIENCES

Software Engineer - Remote   Jan 2024 - Current, Dhaka - Bangladesh

Qtec Solutions Limited

- Participated in Design & Implementation of **Subscription Module** & **Ad System** distributing ads to a user base of **700k+**.
- Executed implementation of new search algorithm reducing response time from **5-10s** to **50-150ms.**
- Implemented **caching** mechanism with **compression system** reducing **cache size 70% and response time by 55%.**
- Applied first stage **recommender** system for video recommendation leading user **satisfaction by 60%.**
- Improved & optimized business critical apis improving response time by **60% on average** by limiting queries.
- Collaborated with a **team of 4** to enhance and implement studio and advertisement panels using **react/nextjs**.
- Redesigned summarizer algorithm for activity data, enhancing Request Unit uses of cosmos db for Ad System.

PROJECTS & CONTRIBUTIONS

<u>**Traffic Pass**</u> **:** Developed a traffic checker system for police to free the hassle of checking vehicles in multiple locations.
<u>**Traffic Complaint**</u> **:** Implemented a **complaint system** where users will be able to complaint about traffic crimes directly to traffic police with a rich and easy to use interface integrated with **gemini API** by uploading images or video.
<u>**Sporting Club**</u> **:** Developing a **Sporting Club Booking System** for booking grounds online with handling collisions.
<u>**E-commerce Website**</u> **:** Developed a functional **E-Commerce** web application for managing online clothes stores .
<u>**Calendar Generator**</u> **:** Built as an open source learning project, contributed **generator** functionality including UI skeleton Development, download functionality, and weekend marking for specified regions added by contributors.
<u>**Geo Geo App**</u> **:** Crawls the web for given websites of BD for data to render government project details and their locations.
<u>**E-Ticketing**</u> **:** Developed a basic online ticket booking system for bus networks with collision handling mechanism.
<u>**Url Shortener**</u> **:** Simple url shortener application to generate shortened url for a given url using SHA1, and UUID4 algorithm

OPEN SOURCE

- Fixed error handling logic in checkdmarc for spf and dmarc invalid exception propagation on string modular element.

EDUCATION

Compact Polytechnic Institute, Feni   *August 2019 - January 2024*

Diploma in Engineering
- **Major :** Computer Science and Technology
- **CGPA Overall : 3.66/4.00**