GAURAV KUMAR

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PROFESSIONAL EXPERIENCE

MASSIVE MOBILITY   **Gurugram, Delhi**
Backend Developer   *Nov 2023 – March 2024*

- I have re-written the previous backend API for the CMS, addressing bottlenecks to improve performance.

- I worked on the 1C Mobile App backend, implementing core functionalities such as shortest path to stations, user feedback, and distance filters, resulting in lower latency and an enhanced user experience.

- I designed the payment dashboard for the Charging Management system, providing analytics on payments to assist in decision making.

- I developed several backend APIs for the Zecat and Bhamo web applications.

- I worked on the Battery Management System (internal-portal), implementing the entire workflow for vehicle tracking using our dashboard and Node backend.

EDUCATION

Gandhi Institute Of Engineering and Technology   **Odisha, India**
B.Tech. Computer Science and Engineering   *August 2020 – April 2024*

- **GPA:** 9.14
- **Relevant Courses:** Data Structures, Design and Analysis of Algorithms, Database Management System, Object Oriented Techniques, Networking.

PROJECTS & OUTSIDE EXPERIENCE

PROSHOP   **Full Stack**
System Design | Tech Stack - React, NodeJs, Express, MongoDB   *March 2023 – Present*

- Library- Express JS and React, Security- Json web token, DB-MongoDB, Middlewares- Express validator,
- Users can perform all the operations like, buy a product or add a product to cart or sign up as admin or customer.
- It has the admin panel where the admin can control all functionality like add product, see the status of delivery and also can refund the amount.

BOTTLENECK LOCALIZER   **Backend**
System Design | Tech Stack: Backend- Golang, DB- Postgres(SQL)   *May 2022 – Jan 2023*

- Worked with Prof Amir H Gandomi and Prof Kshira Sagar Sahoo to create Bottleneck Localizer, a tool which is used to find the bottleneck in the large scale microservice architecture using Machine Learning.
- Our tool ranks the based three parameters throughput, latency and error-rate.
- It uses the distributed traces to compute the complete execution time of a call after that it uses TOPSIS for calculating the result.

TICKET MAINTENANCE SYSTEM (CRM)   **Backend**
System Design | Tech Stack: Backend- NodeJS DB- MongoDB(NoSQL)   *Dec 2021- March 2022*

- Framework-Express JS, Security- Json web token, ORM- Sequelize, Middlewares-Express validator, Testing- Jest.
- Users can raise a ticket to which an Engineer will be assigned by the admin and tickets are closed once resolved.
- It is designed in such a way that it can be plugged with any other application which requires this functionality.

CODING LINKS

LeetCode - *Gaurav2701*
GeeksForGeeks - *GauravKumar2701*
Coding Ninja - *Gaurav Kumar*

SKILLS & INTERESTS

Programming : Python, Java, C++, Javascript, Golang.

Problem Solving: Data Structure and Algorithms.

Web Technology: ReactJs, NodeJs, ExpressJs, REST APIs, Django, NestJs, DevTools, Redis, NextJs .

Databases : MySQL, MongoDB, PostgreSQL

Cloud : Azure, AWS.

Devops : Kubernetes, Docker