

# DHARM JOSHI

Ahmedabad, Gujarat

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## Education

### Silver Oak University

Bachelor Of Engineering ( Computer Science )

Aug. 2019 – Aug 2023

Ahmedabad, Gujarat

## Technical Skills

**Technologies/Frameworks:** ReactJS, NodeJS, ExpressJS, MeteorJS, NextJS, HTML/CSS, JavaScript  
**Databases:** MongoDB, PostgreSQL, MySQL, Mongoose ORM, SequelizeJS ORM  
**Cloud Technologies:** AWS, Azure  
**Version Control Tools:** Git, Github, GitLab  
**Developer Tools:** VsCode

## Experience

### CloudStakes Technology

Dec 2023 – Present

Full Stack Engineer

Ahmedabad, Gujarat

- Developed a fleet management system from scratch, seamlessly **integrating** several IoT devices such as **GPS and fuel sensors** into a Node.js server using the **Socket.IO library** for real-time data integration.
- Developed **specialized algorithms** to compute **real-time metrics** for the fleet, encompassing total distance covered, total fuel consumption over a unit of time, comprehensive mileage calculations per unit of time, and **detailed route history** for specific fleets. These algorithms offer flexible time filters, allowing analysis for today, yesterday, the last 7 days, and custom date ranges.
- Integrated **Google Places service** and **Google JavaScript Maps** seamlessly with Socket.IO to obtain **real-time addresses** of the fleet and its **live location** on the map.
- Optimized database queries** by implementing **indexes** and **reducing** the number of **required queries**, alongside efficient database modeling and schema designs.
- Reduced the cost of third-party services**, such as the Google Places API, by **caching data in the database** and **retrieving** it when a **specific location** is requested.
- Collaborated with a team of 7 members, including mobile application developers and UI/UX specialists, to develop and maintain the Fleetstakes application, Fleetstakes Web Application, and Fleetstakes Super Admin website.

### Openxcell Technolabs Pvt Ltd

Feb 2023 – Sep 2023

Software Engineer

Ahmedabad, Gujarat

- Contributed to various industry domain projects such as **Event Management, Social Media, and Hospitality**.
- Utilized **geo-spatial database queries** and filters in **mongodb aggregation pipelines** to retrieve data within **specified radius ranges** for geo-fencing.
- Implemented **Google Firebase** on both **client and server** sides to manage **real-time notifications** in a social media application.
- Integrated **payment gateways** like **Razorpay** and **Stripe** on both client and server sides to facilitate seamless transactions within the application.
- Optimized **database queries** to reduce server execution time by implementing indexes and employing efficient **database design** strategies, **thereby minimizing the number of queries** needed to retrieve the required data.
- Integrated and utilized **AWS S3 library** for **uploading and retrieving** media such as videos and images for a social media application.

### CleverPush GmBH

Sep 2022 – Feb 2023

Jr. Full Stack Engineer

Ahmedabad, Gujarat

- Developed and maintained the **Cleverpush product** and its admin panel using the **MeteorJS Full Stack JavaScript** framework.
- Implemented a multiple **notification scheduling feature** for Cleverpush clients by integrating **multiple job schedulers** on the server.
- Developed **APIs for scheduling** and **adding multiple notification banners** to a single notification, and executed queries to update the database accordingly.
- Addressed **various bugs** reported by **Cleverpush clients**, resolving them within **defined weekly sprints**.
- Integrated the **Facebook Business API** and **WhatsApp API** into the Cleverpush product for **premium-tier clients**, enabling them to **schedule their social media posts** using the Cleverpush platform.

## Projects

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### **Fleetstakes Server** | *NodeJS, ExpressJS, MongoDB, Mongoose, Firebase, Socket.Io, Razorpay*

- Developed a real-time data pipeline by seamlessly integrating GPS and Fuel sensor devices installed in the fleet with a Node.js server using the Socket.IO library.
- Developed an end-to-end role-based authentication system using the JWT library. Utilized JWT tokens to authenticate users through a middleware function.
- Implemented the Model-View-Controller (MVC) architecture on the server to segregate the business logic from the response handler logic in this project.
- Developed various unit functions to perform complex data manipulations, including retrieving route history of the fleet, calculating fleet mileage per unit time, determining total fleet distance for a given period, and computing fuel consumption based on data provided by fuel sensors.
- Integrated Google Firebase on the server-side to efficiently handle real-time notifications to fleet owners regarding various fleet activities.
- Optimized database queries by implementing indexes at the database level and utilizing geo-spatial queries to retrieve fleet data within predefined geofence radiuses.
- Integrated Razorpay payment integration and its webhooks on the server side to facilitate payment processing within the application.
- Integrated various Google services such as the Google Places API and Google JavaScript Maps to accurately retrieve the fleet's current address and live locations on the map. These locations are updated by the socket server every minute.
- Implemented caching logic to reduce the cost of Google Services APIs by reusing cached data when the fleet returns to a previously visited location.

### **FleetStakes Web App** | *ReactJs, Redux, MetronicsUI, HTML/CSS*

- Developed a web application from scratch for premium-tier customers of Fleetstakes using the Metronic UI.
- Developed an analytical dashboard for administrators overseeing 10-20 fleets registered within Fleetstakes, which includes graphs depicting total fuel consumption, a live map displaying the locations of all fleets with clustered views using Google Maps, and a list showcasing the most active fleets on the same day.
- Integrated Razorpay payment gateway on client side, for handling payments in web application
- Utilized multiple advanced React hooks such as useMemo, useContext, and useRef to efficiently transfer states from one component to another and to cache data when necessary, thereby reducing API calls.
- Developed atom components such as select, button, loader, select file, text input, etc., for universal reuse throughout the entire project.
- Utilized Redux and Redux Toolkit to establish a global Redux store, efficiently managing necessary states throughout the entire application and enabling seamless access whenever needed.
- Utilized Axios library and its helper functions for API calling and streamlined API error handling within the application.

### **Just One Moment** | *NodeJS, ExpressJS, MongoDB, Mongoose, Twilio, Firebase, Stripe*

- Developed a backend server in Node.js from scratch to power a social media application, serving as a photo album sharing platform.
- Developed an authentication system to verify users using JWT tokens, implemented through a middleware function.
- Integrated the Twilio library to send OTPs to users for authentication purposes and to verify their contact numbers during the signup process.
- Implemented intricate MongoDB aggregation pipelines and geo-spatial filters to retrieve homepage posts of the user's friends, as well as posts based on the user's location.
- Optimized database queries to reduce server execution time by implementing indexes and employing efficient database design strategies, thereby minimizing the number of queries needed to retrieve the required data
- Implemented the complete friend requests flow and friend suggestions flow to efficiently handle friend requests and suggestions.
- Integrated the Stripe payment gateway and its webhooks on the server side to facilitate payments within the application.