

VATSAL DHUPELIA

Email: vatsaldhupelia@gmail.com | M:9106781079 | Ahmedabad | [LinkedIn](#) | [GitHub](#)

SUMMARY:

Full Stack Software Developer with a strong passion for crafting innovative solutions through code. My journey in the world of programming has led me to specialize in software development. With a keen eye for detail and a flair for creativity, I strive to deliver outstanding user experiences through clean, efficient, and elegant code.

EDUCATION:

B.Tech., Computer Engineering, (CGPA: 8.54) **2019 - 2023**
Institute: BVM Engineering College, Vallabh Vidyanagar, Gujarat, India.

WORK EXPERIENCE:

Software Developer **April/2023 - Present**
Zealous System Private Limited, Ahmedabad, Gujarat

- Specialized in building scalable, high-performance web applications using **React.js, Node.js, NestJs and MySQL**.
- Worked as a **project-dedicated Full Stack Developer for a leading telecommunications company**, developing and maintaining multiple **enterprise-level admin portals and web applications** with consistent branding and functionality.
- Designed and implemented secure, well-structured **RESTful APIs** using **Node.js, Object.js, and Knex**, focusing on scalability and maintainability also developed **real-time features** such as live notifications and data synchronization using **Socket.IO, Redis, and Firebase** for low-latency communication.
- Integrated **Stripe** payment systems, including payment intents, customer management, subscriptions, and **webhook handling**, ensuring secure and reliable transactions and also managed **secure file storage** and uploads using **AWS S3**, implementing access control and performance optimization.
- Deployed and maintained applications on **AWS EC2**, ensuring high availability, scalability, and reliability in production environments. Utilized **Docker and Git/GitHub** to streamline deployments, and enable efficient collaborative development.

SKILLS:

- **Technical Skills:** ReactJS, NodeJS, NestJS, GraphQL, Sequelize, MySQL, TypeORM, MaterialUI, Redux Saga, Redux Toolkit, REST APIs, Docker, BitBucket, Git, GitHub, AWS, GCP – Pub/Sub, Cloud Run, Cloud Functions
- **Organizational Skills:** Team Work, Group Leadership, Critical Thinking

PROJECTS:

Transferoo - Taxi Booking System (Product)

(NodeJS, ObjectionJS, MySQL, Knex, Socket.IO, Redis, Firebase, AWS S3, AWS EC2, Stripe, Twilio)

- Working as a **Backend Developer**, responsible for architecting, developing, and maintaining the backend infrastructure of a scalable taxi booking platform. Designed and implemented **RESTful APIs** using **Node.js**, **Objection.js**, and **Knex**, ensuring smooth communication between rider, driver, and admin modules.
- Built **real-time ride tracking and live updates** using **Socket.IO**, enabling instant synchronization of trip statuses, driver locations, and ride confirmations. Utilized **Redis** for **caching, session management, and message queuing**, improving response times and reducing overall system latency.
- Designed efficient **database schemas** in **MySQL** to handle high-volume transactional data, ensuring optimized queries and maintaining referential integrity across all entities. Integrated **Firestore** for **real-time push notifications** to drivers and passengers for booking alerts, trip updates, and ride status changes.
- Configured **AWS S3** for secure and scalable storage of user documents, receipts, and trip-related media assets also deployed and managed backend services on **AWS EC2** instances using **PM2** for process monitoring, load management, and zero-downtime deployments.

megsApp

(ReactJS, NodeJS, NestJS, TypeORM, MySQL, GraphQL, GCP, AWS EC2, AWS S3)

- Worked as a **project-dedicated developer** with a leading telecommunications company of South Africa, focusing on delivering tailored solutions to meet industry-specific requirements. As part of this project, developed and maintained multiple admin portals and various web applications, also managing the deployment of their **white-label apps**.
- Developed Admin Panels and Rewards Management Platforms using **ReactJs**, **NodeJs** and **NestJS**, along with **Sequelize** for database management, ensuring efficient data handling and optimizing performance.
- Worked with **Google Cloud Platform (GCP)** services as part of the project, including **Pub/Sub** for real-time messaging, **Cloud Run** for containerized application deployment, and **Cloud Functions** for event-driven serverless applications, ensuring scalability and robust performance.

LMS (Learning Management System)

(NodeJS, MongoDB, AWS EC2, AWS S3)

- Worked as a **Backend Developer**, responsible for designing and implementing the **Admin** and **Employee** modules of the Learning Management System. Developed **scalable and modular backend services** using **Node.js** and **MongoDB**, ensuring efficient data handling, optimized queries, and seamless user interactions.
- Built APIs for two dedicated portals - an **Admin Portal** for managing and organizing course content, and an **Employee Portal** for accessing, tracking, and viewing available courses. Integrated **AWS S3** for secure and reliable storage of course materials, enabling efficient media delivery and content management.
- Configured and deployed both backend services on separate **AWS EC2** instances using **PM2** for process monitoring, load management, and high application availability.