

## Experience

### **Freelance Developer**

April 2024 – Present

- Worked with Surat and Bengaluru-based agencies on production web, mobile, and internal tools, contributing across frontend, backend, databases, CI/CD, and deployment.
- Built high-risk automation for e-commerce seller workflows that cut task time from ~26 minutes to ~4 minutes, increasing throughput without risking account bans.
- Led digitization for a manufacturing business by building a CRM-based system that reduced coordination friction, improved communication, and streamlined order pipelines.
- Across multiple projects, improved system reliability and performance by fixing cross-stack issues and critical flows.

### **ADIS TECHNOLOGIES**

Surat, Gujarat

#### **Software Engineering Intern**

December 2023 – February 2024

- Worked on two distinct projects. Firstly, contributed to a project serving 15 million users, enhancing the front-end architecture with advanced functionalities, comprising 350,000 lines of code.
- Enhanced frontend performance by implementing 2 new features and addressing 30+ minor bugs, culminating in a notable 10% enhancement.
- Secondly, participated in the refinement of Inventory management React Native applications, expanding their capabilities through the integration of 2 new APIs into the search filter and various core functionalities.
- Played a role in troubleshooting and resolving minor bugs within the React Native app, ensuring stability and usability for end-users. Additionally, I had an opportunity to implement 3 new features in total, enhancing overall functionality and user experience.

## Projects

### **THE GOOGLE FILE SYSTEM**

#### **(GoLang, gRPC, Fuse)**

- Reimplemented 90% of The Google File System research paper from 2003 in Go, using a master–chunkserver–client architecture. Core features include chunk replication, streaming reads, and metadata managed via in-memory B-Trees with log-based recovery.
- Used FUSE to expose a POSIX-like interface on the client, enabling standard file operations. Designed to handle multi-GB files mid-file mutation, supporting workloads like collaborative and redundant workflows.

### **BILLIFY**

#### **(NextJS, Typescript, NextAuth)**

- Streamlined invoicing processes for 500,000 potential Micro, Small, and Medium Enterprises (MSMEs), facilitating cost-effective business operations.
- Developed a web application with integrated CRM, enabling users to effortlessly generate e-invoices in PDF format.

### **YOUTUBE PLAYLIST DURATION**

#### **(NextJS, YouTube API v3, Zod)**

- Developed a tool to calculate both the total duration of any YouTube playlist and the duration of individual videos, featuring custom search functionality.
- Designed for students to accurately plan study sessions by estimating lecture playlist durations, offering playback speed options and multiple time format outputs.

## Education

### **BHAGWAN MAHAVIR UNIVERSITY**

Surat, Gujarat

B.Tech, Computer Engineering, CGPA 7.6

## Skills & Interests

**Programming Languages:** GoLang, Typescript, C, Python.

**Technologies:** Nextjs, React, Node, Electron, React Native, Redux, MongoDB, Prisma, PostgreSQL, LangChain, Redis.

**Concepts:** Object Oriented Programming, Functional Programming, MVC, REST API.

**Language:** English, Gujarati, Hindi.

**Interests:** Reading Books: Psychology, Fiction, Personal Development.