Harsh Prajapati

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Education

Dhirubhai Ambani Institute of Information and Communication Technology Sep. 2020 – May 2024
Bachelor of Technology in Information and Communication Technology *Gandhinagar, Gujarat*

Experience

Product Engineer Intern Jan 2024 – May 2024
QBack.ai *Remote*
- Utilized **Next.js, AWS, MongoDB, and various NPM packages** to develop a robust system for QBack.
- Designed and developed scalable backend and **AI services**, enabling seamless integration with multiple backend services to enhance AI-driven content generation.
- Collaborated closely with cross-functional teams to innovate product features and functionalities, playing a pivotal role as a founding engineer in shaping the product vision and strategy.
- Worked with large language models (LLMs) and implemented vector databases to improve the accuracy and efficiency of AI-generated content.
- Developed a Chrome extension using React to capture web information and enable communication between the platform and the extension.
- Fixed a bug in an NPM library that was being used in the code – **Open source contribution.**

Summer Research Intern May 2023 – July 2023
Team Project *DA-IICT, Gandhinagar, Gujarat*
- Implemented the **FTP (File Transfer Protocol) in Python** to facilitate file transfer between client and server.Utilized FTP commands such as RETR (Retrieve), STOR (Store), LIST (List directory), and others to manage file operations.
- Incorporated **multi-threading** in the server-side application to enhance concurrent file transfers. Each client request spawns a separate thread, allowing multiple clients to upload or download files simultaneously.
- Adopted a **master-slave architecture** on the server side for efficient file sharing. The master server manages incoming client requests and distributes them to available slave threads for processing.
- Limited the number of sockets on the server to a predefined value to avoid overwhelming the server resources. Configured the system to efficiently handle a specific number of clients simultaneously.

Placement website Developer June 2022 – February 2023
Volunteer - Front End Developer *DAIICT,Gandhinagar, Gujarat*
- Developed the front end of a placement website using **React** and **MUI**.
- Integrated frontend with backend APIs for the admin panel and implemented user registration UI.

Projects

Url-shortner-service | *Nodejs, Express, MongoDB, Redis* November 2022
- Created an **backend API service** where user can short the URL and get the unique short URL.
- Implemented **Redis** to reduce processing time for repeated short URL requests.
- Developed the UI using **React** to create a minimalistic interface that efficiently utilizes the API.

Price History Tracker | *PostgreSQL, Nodejs, PG-Admin* Septmber 2022
- Designed a **SQL database and APIs** as a part of our course project.
- From problem statement we crafted SRS document, user requirements and ER diagram, database design, Database normalization and its implementation in Postgresql.

Technical Skills

Languages: C++, C, JavaScript, Typescript, Python, HTML5, CSS3, , SQL, NoSQL
Developer Tools: AWS-(S3, SES), GitHub, Apify-Scrapper, Vercel
Technologies/Frameworks: NextJS, ReactJS, NodeJs, Git, MongoDB, VectorDB PostgreSQL, LLMs
NPM packages: Langchain(JS), MUI, NextAuth, Mongoose

Leadership / Extracurricular

Microsoft Student Technical Club - MSTC February 2021 – April 2023
Associate Core Member *DA-IICT*
- Mentored 100+ students in web development through WOC - Annual Tech. Club Learning Program

Coding Rating & DSA practice
Solved 1000+ DSA questions across platforms
- Codeforces-Max 1321
- Leetcode-Max 1558