

PRATIK SONI

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Education

Indian Institute of Technology (BHU), Varanasi

2019 - 2024

Integrated Dual Degree (B.tech + M.tech)

8.02/10 CGPA

Work Experience

Techmojo Solutions

July 2024 – Present

Member of Technical Staff

Hyderabad

- Built complete backend of a support website with features like **authorization** and **notification** service among others.
- Built a Node.js application from scratch to process **NGINX** logs (90 daily zip files), automating the extraction of over **2 billion** records. Segregated meaningful records and irrelevant records in separate files ensuring traceability and fail-safe processing. Designed the application with a focus on **maintainability**, **scalability**, and adherence to **SOLID** principles, ensuring **clean architecture** and ease of future enhancements. Deployed as cron service for daily zip file processing
- Built an **event-driven** system which generates ready-to-ship **zip files** in real-time, replicating the exact folder structure. Used **queue** to implement **asynchronous** methods reducing CPU utilization from **60%** to less than **5%**.
- Built a pipeline to fetch, transform, and save API data to **Redshift**, scheduled via cron for weekly processing
- Implemented endpoint for a form submission service using **Redis**, to process and save data to the **MYSQL** database.

Biztime

May 2023 – July 2023

Software Developer Intern

Remote

- Implemented a robust REST API for a login and authentication module using Node.js, Express.js, and MongoDB.
- Further enhanced security by integrating Google Sign-in via **OAuth**, streamlining user authentication.

Projects

VlogVista

[Source Code](#)

- Developed a RESTful video sharing web application, which supports **30+** API endpoints for uploading/fetching videos, commenting, liking, creating/updating playlists, user authentication/authorization, etc.
- Used **Node.js** with **Express.js** for backend, **Multer** for file handling, **Cloudinary** for file storage, **JWT** and **bcrypt** for secure user authentication and authorization.
- Used **MongoDB** and **Mongoose** models to create and manage database. Utilized MongoDB **Aggregation pipelines** for complex data extraction and **Pagination** for improving performance and user experience.

Ecommerce Product Data Extraction

[Source Code](#)

- Built a **Chrome extension** to extract and download high-quality images from Amazon and Flipkart product pages using advanced DOM manipulation. Flipkart and Amazon fetch these images **dynamically** on user interaction.
- Optimized image retrieval with asynchronous programming, improving performance by **90%**.

Technical Skills

Languages: C++, JavaScript/TypeScript, Python

Backend: Node.js, Express.js, Mongoose, SQL

Frontend: React, Redux, TailwindCSS, HTML, CSS

Clouds & Databases: MongoDB, MySQL, PostgreSQL, Redis, Redshift

Developer Tools: Postman, VS Code, Git, GitHub

Fundamentals: Data Structure & Algorithms, Object Oriented Programming, System Design, DBMS

Algorithmic Competitions/Achievements

- Maximum Rating of 1738 on Leetcode
- Solved **2000+** DSA problems across different coding platforms.
- Ranked **27th** among IIT BHU programmers on GeeksForGeeks.

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Honours and Awards

Legacy JavaScript Algorithms and Data Structures from freeCodeCamp

[Certificate](#)

- Skills: JavaScript(ES6), RegEx, Functional programming, OOPs, Data structures & Algorithms, Debugging

Certified in following skills by HackerRank

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- Skills: Problem Solving, JavaScript, React