PRATIK SONI

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Education

Indian Institute of Technology (BHU), Varanasi   **2019 - 2024**
(B.Tech + M.Tech) Engineering Physics   *8.02/10 CGPA*

Skills

C++, NodeJS, Express.js, SQL, Redis, Redshift, ReactJS, Python, AWS

Experience

Techmojo Solutions   **July 2024 – Present**
Software Engineer   *Hyderabad*

- **Notification Service**
  - Architected a scalable notification service using **Node.js**, Redis pub/sub, and **MySQL**, supporting **event-driven**, scheduled, and interval-based notifications for **8,000+** global users
  - Engineered **Redis pub/sub** for communication between Node.js microservices and used Redis **cache** to track live connections for real-time push notifications via **server-sent events (SSE)**
  - Notification system supports over **15 languages**, delivering personalized content to users in their local language
- **WebApp Backend**
  - Built backend of a website from scratch, handling **JWT**-based authorization, user interactions (likes, subscriptions), real-time notifications, and integrating Strapi CMS for content management across 15+ languages
  - Designed relational database schema with **10+ tables** to efficiently store multilingual content and user activities
- **Data Warehousing**
  - Built an ETL pipeline processing 1B+ NGINX logs to transform and store 90M+ analytics-ready records in **Redshift**
  - Optimized data processing workflows using **parallel processing**, **batching**, and **fault-tolerant** mechanisms, applying clean architecture and **SOLID** principles to ensure maintainability and reliability
- **Real-Time Zip Modification**
  - Developed an **event-driven** application in Node.js that maintains **real-time synchronization** between directories and their corresponding ZIP archives, implementing Observer and Singleton patterns
  - Improved performance with a queue-based async system, reducing CPU usage from **60%** to **5%**
  - Designed an **interface**, to dynamically add, remove, or update watched directories without restarting the system
- **Data Migration**
  - Engineered a scalable **ETL** pipeline processing and migrating **100K+** weekly records from multiple APIs to Redshift
  - Implemented **pagination** for large-scale data extraction and a modular architecture for easy integration of new APIs
- **Data Collection**
  - Applied **write-back caching** using Redis to buffer user data and batch insert it into the database, improving write performance and reducing database load.

Biztime   **May 2023 – July 2023**
Software Developer Intern   *Remote*
- Worked on the authN and authZ module with JWT-based authentication and **OAuth 2.0** integration for Google SSO

Projects

Flight Booking & Management System   Code
- Built a **CLI** with **RBAC** where user can search flights, view/reserve/cancel reservation. Admin can add/delete flights
- Used **Python** and **MySQL** to implement Object Oriented Design based **Layered (N-Tier)** architecture
- Implemented **Breadth First Search** to retrieve all possible routes b/w source and destination with **maximum** k stops
- Leveraged **Amadeus API** to get realtime price of flights between two Airports
- Implemented **Dijkstra's Algorithm** to find the cheapest route among all possible direct and indirect routes

Achievements

Algorithmic Competitions/Achievements

- Among Top **7%** coders globally on LeetCode (Max Rating **1797**) 🔗
- Solved **1500+ DSA** problems across different coding platforms.
- Ranked **27th** among IIT BHU programmers on GeeksForGeeks.