

Aditya Raj Singh

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Profile

Software Engineer with a year of experience in frontend development with React and Next.js. Skilled in creating scalable, user-centric interfaces and integrating them with high-performance backend services built in Go. Eager to leverage a full-stack skillset in a collaborative, environment and contribute to challenging software projects.

Skills

- **Frontend Development:** React, Next.js ,JavaScript, State Management (Context API)
- **Backend Development:** Go, Python, Django, RESTful APIs
- **Databases:** PostgreSQL, SQL
- **Developer Tools:** Git, Linux, Vim, Postman

Experience

Software Engineer Aug 2024 –Present
Tescra Remote

- Developed scalable RESTful APIs for user **authentication** and data **validation** consumed by the frontend application .
- Enhanced overall application quality by refactoring legacy code to improve modularity, maintainability, and re-usability, following **object-oriented principles**.
- Built **reusable** utilities and internal libraries for data processing and automation pipelines, accelerating developer workflows and reducing manual coding effort.
- Collaborated with engineering teams to design, implement, and validate solutions for complex API and database integration challenges, ensuring system reliability and preventing future issues in production.

Projects

Chat Application (Golang, Next.js)

- Designed and built a high-performance **RESTful** API using Go, including database schema and business logic, to power a scalable full-stack application.
- Implemented **concurrent** processing and optimized database queries in Go to handle large volumes of data efficiently, significantly reducing API response times.
- Developed core backend features in Go for user **authentication**, data processing, and state management, providing reliable and secure services for the application's frontend.

StudyRoom Website (Python, Django)

- Designed and developed a collaborative educational platform using the Django REST Framework (DRF), enabling users to create and manage topic-based study rooms and discussions.
- Engineered a scalable data model with Django's ORM for user profiles and study room content, ensuring efficient data retrieval for a seamless user experience
- Integrated Django authentication system for secure user login and management, enabling topic-based discussions.

Education

Dr.A.P.J. AbdulKalam Technical University
B.Tech in Computer

Dec 2020 – Aug 2024

Prelude Public School (CBSE) High School
High School

Apr 2019 – Apr 2020