Pratik Kumar Tiwari

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EDUCATION

GLA University, Mathura   Dec 2020 - May 2024
B.Tech in Computer Science and Engineering   CGPA: 8.25

WORK EXPERIENCE

Squareboat Solutions NestJS, Airbyte, ReactJS, Redux, MongoDB, PostgreSQl, AWS, Redis   Gurugram, IN
Software Engineer   July2024 - Present

- Successfully developed an **end-to-end ELT pipeline** for an AI Agent platform, extracting data from diverse sources like **Facebook, Google Ads, Amazon Ads, and Shopify** using NestJS, **Airbyte**, BigQuery, and MongoDB. **Managed and transformed over 200GB+ of data using dbt transformations** to keep data consistency.
- Optimized PostgreSQL queries with materialized views and caching, reducing response times up to 60% and query execution by 30%.
- **Integrated notification systems** such as Slack channels, FCM, and Emails using custom **SQS and Redis queue drivers**, ensuring timely and reliable internal events tracking of a **Multi Tenant Application.**
- **Led staging and UAT releases independently,** managing PM2 configurations, Dockerfiles, Docker Compose files, NGINX, Apache2, EC2, and VPC configurations, alongside **master-slave database setups**.

Squareboat Solutions ReactJS, NextJS, NestJS, MongoDB, PostgreSQl, ObjectionJS, BigQuery   Gurugram, IN
Software Engineer Intern   July 2023 - July 2024
- **Led a full frontend revamp** of a big competitor to Motion.app, using **ReactJS, Tailwind, React Query and Shadcn-UI**. **increasing the user base by over 300%.**
- Created robust **authorization mechanisms**, including **Nonce guards** and implemented comprehensive Role-Based Access Control **(RBAC)** and Attribute-Based Access Control **(ABAC)** systems across full-stack environments.
- Developed a full-stack job portal using **Next.js and NestJs**, incorporating **dynamic metadata** and **server components** for **enhanced SEO** and performance. Utilized **Tanstack React Query** for efficient API handling.

PROJECTS

Bandhan Matrimonial, B.Tech ReactJS, NodeJS, MongoDB

- Developed a **full-stack matrimonial web app** where users can register to find their match, post profiles, read, and write different categories of blogs.
- Implemented **state management** for seamless user experience and efficient data handling using **React**, **Node.js**, and **MongoDB** for backend services.

Fanscribe NextJS, NestJS, Redis, MongoDB, Kubernetes, AWS
- Platform where creators can register and sell their **audio content**, providing seamless experience for **creators**.
- Managed **file uploads**, implemented **Role-Based Access Control (RBAC)**, **caching**, and **notifications**.
- Authored all **Kubernetes** and **Docker** manifests for deployment of monorepos, ensuring a robust and scalable infrastructure.

TECHNICAL SKILLS

Python, Golang, Git, HTML, CSS, Javascript, Tailwind CSS, ReactJS, NextJS, Redux, React-Query, NodeJS,
NestJS, AWS, Docker, Kubernetes, Jenkins, Redis, Queues, AWS Lambda, MongoDB, PostgreSQl,
SQL, GraphQL, Airbyte, Firebase, Repository Design Pattern, MVVM and Monorepo Architecture.

ACHIEVEMENTS

- Published a custom **npm package** for **parsing JSON into CSV**, enhancing data processing capabilities for developers.
- Developed and maintained an open-source **Golang boilerplate** utilizing **repository design patterns, dependency injection (DI), queues, Redis, MongoDB**, and more.
- Consistently sharing insights and knowledge on **Medium.com**.