

NIRBYOLEEK DAS

Software Development Engineer | JavaScript · TypeScript · React · Node.js

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SUMMARY

Software engineer with 2+ years building and operating production web applications for enterprise customers including PepsiCo and Wolters Kluwer. Own features end to end — API design, data model, UI, and release — with a track record of measurable latency, performance, and delivery-speed wins. Strong in JavaScript/TypeScript, React, Node.js, REST API design, and authorisation systems.

EXPERIENCE

Application Engineer — Tiger Analytics

Chennai, India | Aug 2024 – Present

- **Wolters Kluwer (current):** building two customer-facing applications in React, TypeScript, and Node/Express, owning frontend architecture and API contracts from design through release.
- **PepsiCo Knowledge Management System:** shipped an internal platform centralising operational, training, and process documentation for global teams; full-text search and metadata tagging cut document retrieval time 40%.
- **PepsiCo Support Load Portal:** built shipment tracking with real-time status, advanced filtering, and role-based dashboards; reduced page load time ~30% by batching and deduplicating API calls.
- Cut API p95 response times 25% through compound indexing, query tuning, and returning only the fields the client renders.
- Replaced ad-hoc permission checks with a single shared authorisation layer — JWT with refresh-token rotation plus role-based access control — adopted across both platforms.
- Improved frontend performance 30% with route-level code splitting, memoised list rendering, and image optimisation; raised team delivery speed ~20% by extracting a shared component and API-hook library.

Application Engineer Intern — Tiger Analytics

Chennai, India | Jan 2024 – Jul 2024

- Built React dashboards over Node/Express APIs that automated recurring client reporting previously assembled by hand; authored the first reusable UI components and API hooks later adopted team-wide.
- Set up shared Postman environments and request tests, standardising the team's API workflow.

React.js Developer Intern — Vakilsearch Legal Solutions

Remote | May 2022 – Sep 2022

- Built responsive React components for legal service workflows and reworked form validation and accessibility — labels, focus order, keyboard navigation — improving completion on multi-step flows.

ReactJS Software Engineer — Trakiot Solutions

Remote | Jul 2021 – Jan 2022

- Sole frontend engineer on the company's flagship application; established the routing, state management, and API integration conventions the team built on afterwards.

PROJECTS

Chat App

chat-app-ymju.onrender.com | Socket.io, React, Node, Express, MongoDB

- Real-time messaging with private rooms, typing indicators, and message persistence; JWT auth and per-socket rate limiting to stop event floods from degrading a room.

Twitter Clone

twitter-n5yl.onrender.com | React, Node, Express, MongoDB

- Feed, follows, and posting on a paginated REST API with response caching and centralised server-side error handling.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL, HTML5, CSS3

Frontend: React, Next.js, Redux Toolkit, React Query, Tailwind CSS, MUI

Backend & Data: Node.js, Express.js, REST API design, JWT authentication, MongoDB (Mongoose), SQL

Testing & Tooling: Jest, Postman, Git, GitHub, ESLint, Prettier, Vercel, Netlify, Render

Fundamentals: Data structures and algorithms, API and schema design, caching, pagination, authorisation, OWASP security practices

EDUCATION

B.Tech, Computer Science & Engineering — SRM Institute of Science and Technology, Chennai | 2020–2024 | GPA 9.5/10