KULDEEP

📞 8569958265   ✉ kuldeepsinghtanwar2001@gmail.com   📍 Haryana, India

[Portfolio](#)   [Linkedin](#)   [Github](#)   [Leetcode](#)   [GFG](#)

EXPERIENCE

Software Development Engineer (Next.js, NestJS, TypeScript, MongoDB) — November 2024 – Present
Digiaccel Learning — *Gurugram, IN*

- Developed a full-stack Learning Management System using Next.js, NestJS, and MongoDB, supporting internal admin and learner workflows.
- Improved backend performance by optimizing API logic and database queries, reducing average response latency by approximately 50%.
- Performed server load testing using k6 and integrated Redis caching to improve application stability during high traffic scenarios.
- Optimized frontend data fetching using debouncing and request cancellation, reducing redundant API calls and improving UI responsiveness.
- Implemented secure direct file uploads to AWS S3 using pre-signed URLs, improving file upload latency by approximately 30%.

Software Development Engineer Intern (MERN Stack) — January 2024 – June 2024
Vilihi Virtual Services — *Noida, IN*

- Built a shared TypeScript Enums NPM package to maintain consistency between frontend and backend codebases, reducing approximately 20% of type-related issues.
- Set up Storybook for isolated development of React components to improve UI reliability and development efficiency.
- Boosted React component performance by minimizing unnecessary re-renders using useMemo, useCallback, and useRef.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, Tailwind CSS, MUI

Backend: Node.js, NestJS, Express.js, RESTful APIs

Databases and Caching: MongoDB, SQL, Redis

Programming Languages: TypeScript, JavaScript (ES6+), C++

Tools & Platforms: VS Code, Cursor, Git/GitHub, JIRA, Vite, Postman, Vercel, Slack, Generative AI Tools

EDUCATION

National Institute of Technology Kurukshetra — August 2020 – June 2024
B.Tech (CE) – 7.88 CGPA — *Kurukshetra, Haryana*

Yaduvanshi Shiksha Niketan, Mahendragarh — 2018 – 2020
Senior Secondary (10+2) – 93.2% & High School (10) – 88.5% — *Mahendragarh, Haryana*

KEY PROJECT

Gupshup | *(A full-stack real-time chat application)*   *[Gupshup](#)*

- Engineered a Slack-style realtime group chat system where all conversations (including 1-to-1 DMs) are modeled as groups using a stable chatId and memberIds, enabling scalable multi-user messaging.
- Integrated realtime messaging and presence updates with Pusher Channels and Redis to deliver low-latency communication and consistent chat state.
- Designed secure authentication and access control using Google OAuth (NextAuth), protected routes, and email-based friend requests.

BookShoppe | *Vite, MERN Stack, Redux, Tailwind, Vercel*   *[BookShoppe](#)*

- Built a full-stack book-selling platform using React, Node.js, MongoDB, and Redux.
- Added core features including product listing, cart management, and checkout flow.
- Deployed the application on Vercel and refined client-server communication for a smooth user experience.