

# Kamlesh Patel

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Portfolio: <https://kamlesh-portfolio-23.netlify.app/>



## EDUCATION

**Motilal Nehru National Institute of Technology (MNNIT), Prayagraj(Allahabad), India**

B.Tech. in Mechanical Engineering

July 2018 – July 2024

CPI: 7.3/10

**S.I.C. Mungra Badshahpur Jaunpur, India**

Intermediate(Math) UP Board

July 2016 – June 2017

73.80%/100

**S.I.C. Mungra Badshahpur Jaunpur, India**

High School UP Board

July 2014 – May 2015

87.83%/100

## TECHNICAL SKILLS

**Core Programming** : C, C++, Data Structures & Algorithms, Object-Oriented Programming

**Database Technologies** : SQL, MongoDB, DBMS

**Frontend** : React.js, JavaScript, HTML5, CSS3, Material-UI

**Database Technologies** : SQL, MongoDB, DBMS

**Backend** : Node.js, Express.js

**Tools & Technologies** : Git, RESTful APIs, Socket.io, Redux Toolkit, JSON, Problem-Solving, Debugging, Root Cause Analysis

## PROJECTS

<https://kamlesh-portfolio-23.netlify.app/>

**E-Commerce Web Application** | React, Node.js, Express, MongoDB, JavaScript, Redux Toolkit, Razorpay API, Git June 2024

- Created a fully responsive e-commerce platform for diverse products, ensuring an optimized user experience across devices.
- Built the front end using React and JavaScript, with dynamic and interactive UI components to enhance user engagement.
- Designed and applied the back-end architecture using NodeJS and Express, ensuring efficient API communication and secure data management with MongoDB which reduced search errors by 35% by enhancing the product search feature.
- Incorporated the Razorpay payment gateway API for secure, real-time payment processing, enhancing the user checkout experience.
- Executed comprehensive state management with Redux Toolkit (RTK), enabling consistent and efficient data flow throughout the application. Project Link – <https://e-commerce-kp.vercel.app/>
- Key features:
  - Authentication & Authorization: Secure user login, registration, and session management.
  - Admin Dashboard: Full control over product management, order tracking, and user administration.
  - Password Reset: Engineered a secure password reset mechanism utilizing email verification to ensure robust account protection and user identity confirmation.
  - Product Review & Rating: Interactive customer reviews with star ratings for better product insights.

**Real-Time Web Chat Application** | ReactJS, Node.js, Express, JavaScript, Socket.io, Git

Dec 2023

- Pioneered a responsive group chat application with React and Socket.io, enabling real-time messaging and seamless group communication across devices.
- Built the server using Node.js and Express, integrating Socket.io for efficient real-time communication between users with minimal latency.
- Innovated user authentication and authorization for secure access, ensuring that only registered users can participate in group chats.
- Optimized the app's performance to handle multiple concurrent users, providing a seamless experience in active chat environments. Project Link – <https://web-chat-app-kp.vercel.app/>
- Key features:
  - Real-Time Messaging: Instant message delivery with user connection/disconnection status updates in real time.
  - Avatar Functionality: Users can upload and display personalized avatars during chat sessions.
  - Password Reset: Secure password reset functionality, enhancing user account security.
  - Connection Status Alerts: Notifications for users joining or leaving the chatroom for better group engagement.

**Inventory Management Application** | MERN Stack, Redux Toolkit, Cloudinary, Multer, JavaScript, Git

Nov 2023

- Competed a responsive inventory management system using the MERN stack, allowing users to efficiently track, manage, and update product quantities.

- Modernised the front-end with React and JavaScript for dynamic user interaction, delivering a seamless and intuitive user experience.
- Merged the back-end with Node.js and Express, enabling robust API handling and database management with MongoDB to store and manage product data
- Streamlined state management using Redux Toolkit (RTK), ensuring smooth and efficient data flow across the application for a consistent user experience. Project Link – <https://inventory-kp.vercel.app/>
- Key features:
  - Product Tracking: Add, update, and remove products with real-time updates on available stock quantities.
  - Cloud-based Media Management: Blended Cloudinary for secure, cloud-hosted product image storage and retrieval.
  - File Handling: Combined Multer for efficient file uploads and management on the back-end, streamlining the process of handling product images.

#### **YouTube Clone Application** | *React, Material-UI (MUI), JavaScript, HTML5, CSS3, Axios, YouTube Data API, Git* Sept 2023

- Developed a fully responsive YouTube Clone using React and Material-UI (MUI), recreating the core functionalities and user interface of YouTube.
- Leveraged the YouTube Data API to dynamically fetch and display video data, allowing users to browse, search, and view video content seamlessly.
- Operated Axios for smooth and efficient integration with the YouTube Data API, handling HTTP requests and ensuring real-time updates.
- Enforced front-end design with HTML5, CSS3, and modern JavaScript (ES6+), ensuring clean, maintainable code and fast loading times. Project Link – <https://youtube-clone-kp.netlify.app/>
- Key features:
  - Video Search & Playback: User can search for videos, view thumbnails & play videos with a responsive embedded player.
  - Dynamic Video Data: Fetch video metadata such as titles, views, and channel details in real-time from the YouTube API.
  - Responsive UI: Implemented a sleek and modern UI with Material-UI (MUI), ensuring a consistent experience across devices.

#### **Pokédex Application** | *React, Axios, PokeAPI, JavaScript, HTML5, CSS3, Git* June 2023

- Developed an interactive and responsive Pokédex app using React, offering a comprehensive tool for Pokémon enthusiasts to search and manage Pokémon data.
- Integrated with the PokeAPI to fetch real-time data for over 800+ Pokémon, including attributes such as name, type, abilities, and stats.
- Utilized Axios for seamless API communication, ensuring fast and efficient data retrieval and display.
- Implemented front-end design with HTML5, CSS3, and JavaScript, ensuring a smooth, user-friendly interface and maintainable code. Project Link – <https://pokedex-web-app-kp.vercel.app/>
- Key features:
  - Search Functionality: Users can search for Pokémon by name or ID, with instant results and detailed information displayed.
  - Bookmarking: User can bookmark their favorite Pokémon and manage their personal collection within the app.
  - Responsive Design: Unified for optimal user experience across devices, with a clean, mobile-friendly interface.

### AWARDS, CERTIFICATIONS & ONLINE TRAININGS

<b>Got qualified in GATE Exam (India-Level)</b>   <i>3rd year- B.tech(MNNIT)</i>	2021
<b>Have been a scholar of the Foundation For Excellence (FFE).</b>	2018-2021
<b>Got qualified in both JEE-Main &amp; JEE- Advanced (India-Level)</b>   <i>after Class 12th</i>	2018
<b>2nd Position in MKC Talent Hunt (State-Level)</b>   <i>MKC Talent Hunt - Class 12th</i>	2017
<b>Awarded a laptop by the U.P. Board for academic excellence (State-Level)</b>   <i>Class 10th</i>	2015
<b>1st Position in Competitive Scholarship Exam (Town-Level)</b>   <i>Class 10th</i>	2015
<b>2nd Position in Competitive Scholarship Exam (Town-Level)</b>   <i>Class 9th</i>	2014
<b>TCS iON NQT-IT: Qualified the TCS National Qualifier Test (NQT)</b>	Oct 2024
<b>TCS iON NQT - Psychometric: Achieved certification in the TCS iON National Qualifier Test (NQT)</b>	Oct 2024
<b>Internet History, Technology, and Security</b>   <i>(Online training) 3rd year- B.tech(MNNIT)</i>	2021
<b>Entrepreneurship</b>   <i>(Online training) 3rd year- B.tech(MNNIT)</i>	2020
<b>AI, ML , IOT</b>   <i>(Online training) 3rd year- B.tech(MNNIT)</i>	2020

- I was a member of one of the most prestigious college project clubs, the Society of Automotive Engineers (SAE).
- I love exploring various branches of natural science. I'm an avid fan of the Marvel Cinematic Universe (MCU).

### Cover Letter