

SAURABH KUMAR

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Education

Quantum University

Bachelor of Technology in Computer Science

Aug. 2022 – May 2026

Roorkee, Uttarakhand

Sainik School Kapurthala

Intermediate (CBSE) secured **86.60 %**

March. 2020 – March 2021

Kapurthala, Punjab

Sainik School Kapurthala

Matriculation (CBSE) secured **90.00 %**

March 2018 – March 2019

Kapurthala, Punjab

Summary

Detail-oriented Computer Science Engineering student with hands-on experience in full-stack development using **Next.js, React, JavaScript, Prisma, MongoDB, and Tailwind**. Skilled in building scalable web applications with secure authentication, optimized API routes, and responsive UI/UX. Strong foundation in **Data Structures and Algorithms (C/C++)**, Python, SQL, and modern software development practices. Experienced with Git, Postman, and Linux development environments, with demonstrated leadership and teamwork through national-level achievements. Seeking opportunities to contribute to high-impact software engineering projects while continuing to grow technically.

Projects

Hostel Management System | Link | *Next.js, React, TypeScript, Prisma ORM, MongoDB, Tailwind CSS*

- Developing a full-stack Hostel Management System using **Next.js (App Router)** and **React 19** with **TypeScript** for scalable and type-safe development.
- Built secure **CRUD operations** and **RESTful APIs** with **Prisma ORM** and **MongoDB**, deployed using **Vercel serverless functions**.
- Implemented **authentication and authorization (AuthN/AuthZ)** with **RBAC** to manage access for **admins, wardens, and students**.
- Designed responsive, mobile-first UI using **Tailwind CSS v4**, enhancing usability across devices and dashboards.

Store Management System | Link | *Next.js, TailwindCSS, Prisma, GraphQL*

- Developed a full-stack Store Management application using **Next.js, TypeScript, Prisma** and **GraphQL**.
- Implemented **CRUD operations** for products, users, and sales with Prisma ORM and a MongoDB database.
- Integrated secure **authentication & authorization** for role-based access (admin, staff, etc.)
- Ensured **responsive UI/UX** with React components and Tailwind CSS for seamless device-wide use.

Job Portal App | Link | *Next.js, Prisma, TailwindCSS*

- Developed a full-stack Job Portal Application using **Next.js, Prisma, MongoDB**, and **TailwindCSS** to manage jobs and company listings.
- Implemented advanced features such as **job filtering, search suggestions, pagination, and saved jobs** using RESTful API routes and server actions.
- Developed a secure **authentication & authorization** system to enable personalized dashboards and restricted access for different user roles.

Kanban Board | Link | *Redux, React, React-router, Tailwind*

- Built a project management tool to **create and manage boards, stages, and tasks** with persistence via **local storage**, and integrated **navigation and routing** using React Router.
- Implemented **global state management** using **Redux** with support for drag-and-drop tasks across stages.

Memes | Link | *React, Tailwind*

- Built a Meme Generator application using **React** and **TailwindCSS**, allowing users to create memes by adding custom text to images.
- Implemented features like **image upload, text overlays, styling controls, and instant preview** for an interactive experience.

Internships & Workshops

Intern Dev – Software Intern

09/2023 – 10/2023

Frontend Development

Online

- Developed a static landing page using HTML, CSS, and JavaScript.
- Created a personal portfolio website to showcase skills and projects.
- Gained practical experience in frontend development principles and workflow.

AI & ML with Data Science Workshop – EDU FABRICA (NSS, IIT Roorkee)

04/2024

Python, Pandas, Data Science

Roorkee, India

- Conducted by Ethical Edufabrica Ltd with NSS 2024 at IIT Roorkee.
- Implemented a real-world project using Python and libraries like Pandas.
- Worked with a Real Estate Dataset to predict property values.

Certifications & Trainings

Software Development Training – Explorin Academy — 2025

Introduction to C Programming – NPTEL — 2023

AI and ML With Data Science Workshop – EDU FABRICA (in association with NSS) — 2024

Data Structures and Algorithms with Java – NPTEL — 2024

Technical Skills

Languages: C, C++ (DSA), Java, Python, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Postman

Technologies/Frameworks: Linux, Next.js, React, Prisma, GraphQL, MongoDB, Firebase, Redux, TailwindCSS, React-Router, GitHub, Git

Achievements

- Honored to be part of the marching contingent on **Kartavya Path** (formerly Rajpath) and participated in the **Prime Minister's Rally**, showcasing discipline, leadership, and excellence during the **Republic Day Celebration (RDC) Camp 2019**.
- Recipient of the **Reliance Foundation Scholarship**.

Leadership / Extracurricular

House Captain, Patel House

2020 – 2021

Sainik School Kapurthala,

Punjab, India

- Elected as **House Captain** and led a team of 70+ cadets, fostering discipline, teamwork, and leadership.
- Organized and supervised house activities, including sports, cultural events, and academic competitions.
- Promoted a spirit of **teamwork, responsibility, and leadership** within the house.

Additional Information

Languages Known: Hindi, English, Punjabi

Hobbies & Interests: Coding, Chess, Music