# SAURABH KUMAR

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## Education

**Quantum University** <span style="float:right">Aug. 2022 – May 2026</span>
*Bachelor of Technology in Computer Science* <span style="float:right">Roorkee, Uttarakhand</span>

**Sainik School Kapurthala** <span style="float:right">March. 2020 – March 2021</span>
*Intermediate (CBSE) – PCMCS secured **86.60 %***

**Sainik School Kapurthala** <span style="float:right">March 2018 – March 2019</span>
*Matriculation (CBSE) secured **90.00 %*** <span style="float:right">Kapurthala, Punjab</span>

## Summary

Detail-oriented Computer Science Engineering student specializing in **full-stack web development** with hands-on experience using **Next.js 16 (App Router)**, **React 19**, **TypeScript**, and **JavaScript (ES6+)**. Proficient in building scalable applications with **RESTful APIs**, **CRUD operations**, **authentication and authorization (AuthN/AuthZ)**, and **role-based access control (RBAC)**. Experienced with backend development using **Node.js**, **Prisma ORM**, and **MongoDB**, along with responsive UI design using **Tailwind CSS v4** and animations via **Framer Motion**. Strong foundation in **Data Structures and Algorithms (C/C++)**, **Python**, and **SQL**. Familiar with modern development workflows using **Git**, **Postman**, **Figma**, and **Vercel**. Seeking software engineering roles to build high-impact, production-grade applications.

## Projects

**Hostel Management System** | Link | *Next.js, React, TypeScript, Prisma ORM, MongoDB, Tailwind CSS*
- Developing a production-grade full-stack system using **Next.js 16 (App Router)**, **React 19**, and **TypeScript** for modular and scalable architecture.
- Designed and implemented **RESTful APIs** and **CRUD operations** using **Prisma ORM** and **MongoDB**, deployed via **Vercel serverless functions**.
- Implemented secure **authentication and authorization (AuthN/AuthZ)** with **RBAC** for admins, wardens, and students.
- Built responsive, mobile-first dashboards using **Tailwind CSS v4**, ensuring cross-device compatibility and accessibility.

**Store Management System** | Link | *Next.js, TailwindCSS, Prisma, GraphQL*
- Built a full-stack Store Management System using **Next.js**, **TypeScript**, **Prisma ORM**, and **GraphQL**.
- Implemented secure **CRUD operations** for inventory, users, and sales data with MongoDB.
- Applied **authentication, authorization**, and **RBAC** to control admin and staff access.
- Designed a responsive UI using **Tailwind CSS** for seamless multi-device usage.

**Job Portal App** | Link | *Next.js, Prisma, TailwindCSS*
- Developed a scalable Job Portal using **Next.js**, **Prisma ORM**, and **MongoDB** with server actions and API routes.
- Implemented **search, filtering, pagination**, and **saved jobs** using optimized RESTful APIs.
- Integrated secure **AuthN/AuthZ** to enable personalized dashboards and protected routes.

**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** <span style="float:right">**09/2023 – 10/2023**</span>

*Frontend Development* <span style="float:right">*Online*</span>

- 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)** <span style="float:right">**04/2024**</span>

*Python, Pandas, Data Science* <span style="float:right">*Roorkee, India*</span>

- 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
**Certification course on AWS cloud** – Infosys Foundation (ICTAcademy) — 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**: JavaScript (ES6+), TypeScript, C, C++ (DSA), Python, SQL, HTML5, CSS3
**Frontend**: React 19, Next.js 16 (App Router), Tailwind CSS v4, Framer Motion, Redux, React Router
**Backend**: Node.js, Prisma ORM, MongoDB, RESTful APIs, Serverless Functions
**Tools & Platforms**: Git, GitHub, Postman, Vercel, VS Code, Figma, Linux
**Concepts**: RBAC, Authentication & Authorization, CRUD Operations, Responsive Design

## 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** <span style="float:right">**2020 – 2021**</span>

*Sainik School Kapurthala,* <span style="float:right">*Punjab, India*</span>

- 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