

# SUNDER KUMAR

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## EDUCATION

### Rajkiya Engineering College (AKTU)

Bachelor of Technology in Information Technology; (Grade:7.4 CGPA)

2021 – 2025

Ambedkar Nagar, UP

### Central Board of Sec Education (New Delhi)

Secondary Education (Mathematics)

March 2020 – July 2021

Lucknow, UP

### Central Board of Sec Education (New Delhi)

High School

March 2018 – July 2019

Lucknow, UP

## RELEVANT SKILLSETS

- Full-Stack Web Development
- Containerization using Docker
- Data Structures and Algorithms in C++
- SQL Database Management
- Data Analysis using Python

## PROJECTS

### Code-Engine: Cloud-Based Code Execution Platform | *NextJS, Prisma, Apache Kafka, Docker, Redux* **January 2025**

- **Frontend:** Built with Next.js, Auth.js, Tailwind CSS, Redux Toolkit (RTK Query), BlockNote for rich text editing, and Monaco Editor for a VS Code-like experience.
- **Backend:** Designed with Express.js, featuring a Kafka-based job queue to distribute execution tasks to isolated worker nodes using IOI/Isolate.
- **Deployment & Scaling:** Containerized with Docker & Docker Compose for seamless orchestration.
- Released the app on GitHub - [sunder-kirei/code-engine-client/](https://github.com/sunder-kirei/code-engine-client/)

### HLS Video Streaming Platform | *NextJS, IndexedDB, TailwindCSS* **October 2024**

- Developed Bocchi, a full-stack anime streaming platform using Next.js, @consumet API for data integration, HLS playback for smooth video streaming, and IndexedDB for offline storage in the PWA version.
- Deployed on Vercel - [bocchi-next.vercel.app/](https://bocchi-next.vercel.app/)

### SFU based Video Conferencing App | *NextJS, SocketIO, Google OAuth 2.0, Docker, WebRTC, HaProxy* **September 2024**

- Developed a real-time video conferencing app leveraging SFU architecture. This architecture significantly reduces bandwidth consumption, improving scalability and performance, especially in group calls, leveraging WebRTC.
- Deployed the app in a containerized environment using Docker, with haproxy based load balancing ensuring portability and scalability.

### Full-Stack Expense Tracker | *NextJS, Prisma, Redux, RTK-Query, AuthJS* **August 2024**

- Built a full-stack Expense Tracker app using Next.js, Redux, and RTK Query for efficient state management and data fetching. Utilized Prisma as the ORM for database management, and implemented secure authentication with Auth.js. Designed forms with React Hook Form and validated inputs using Zod for seamless user experience.
- Deployed on Vercel - [expense-tracker-ebon-six.vercel.app/](https://expense-tracker-ebon-six.vercel.app/)

### Real-time Chat Application | *Flutter, Firebase* **November 2022**

- Integrated Firebase to Flutter to develop a cross-platform chat application, incorporating both global and private chat features.
- Released the app on GitHub - [sunder-kirei/chats\\_app\\_flutter/](https://github.com/sunder-kirei/chats_app_flutter/)

## PROFILES

- Developer Portfolio - [sunder-kirei.github.io/](https://sunder-kirei.github.io/)
- LeetCode - [sunder-kirei/](https://leetcode.com/sunder-kirei/)

## TECHNICAL SKILLS

**Languages:** C++, JavaScript, Typescript, SQL, Bash, Dart, Python, HTML/CSS

**Technologies/Frameworks:** ReactJS, NextJS, Redux, RTK Query, WebRTC, OAuth, TailwindCSS, Docker, Kafka, Firebase, HaProxy, Flutter, Git & GitHub, TensorFlow