

Soham Gupta

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EDUCATION

B.E. Information Science and Engineering
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Visvesvaraya Technological University

Bangalore, IN | 2022-2026

WORK EXPERIENCE

VIDEOLAN | GOOGLE SUMMER OF CODE

Remote, India | May 2023 – Aug 2023

- Implemented support for next-gen **HEVC/H.265** codec, improving performance for 2B+ VLC users worldwide(Chromecast module).
- Optimized video casting to Chromecast, resolving synchronization bugs that improved streaming latency by 40%.
- Fixed a critical **transcoding** module bug that resulted in out-of-sync audio.
- Added support for blending subtitles in 3 formats (SRT, WebVTT, ASS), expanding VLC's Chromecast's accessibility features.

PROJECTS

PAYMENTS APP 

REACT, MONGODB, TAILWIND CSS, JWT TOKENS

- Developed a full-stack web application using **React**, **Node.js**, and **MongoDB** to enable users to manage their accounts, transfer money, and view other registered users.
- Implemented a secure user authentication system with **JWT tokens**, safeguarding user data and ensuring authorized access to the application.
- Developed a robust **transaction** management system using **Mongoose ODM**, ensuring **atomic** and **reliable fund transfers** between multiple accounts.

IPL SCORE CHROME EXTENSION 

JAVASCRIPT, API, HTML, CSS, JSON, HTTP REQUESTS

- Incorporated animations in the user interface, enhancing the visual appeal and providing a better user experience.
- Demonstrated proficiency in working with APIs, specifically fetching real-time match details from the Cricketdata.org API and parsing **JSON responses**, as well as working with asynchronous JavaScript using **async/await**.
- Showcased the ability to work with third-party libraries to add functionality to the extension, including using the Fetch API for **HTTP requests** and filtered data using JSON.

SKILLS

Languages: Java, C, C++, Python, Bash, SQL

Frontend: React JS, Recoil, Next JS, TypeScript, Tailwind CSS, Framer Motion

Backend: Node.js, Express.js, TypeScript, JavaScript

Database: MongoDB, PostgreSQL, Prisma

Technology: Git, AWS, Docker, Markdown, \LaTeX , DynamoDB, Turborepos

ACHIEVEMENTS

- Contributed to several GitHub-hosted **open source projects** by opening pull requests during October, earning limited-edition swags.
- Completed a **Google Summer of Code(GSoC) 2023** project, demonstrating technical proficiency, collaboration skills, and open-source contributions.
- Participated in **Hacksquad 2022** and **2023**, a community-driven initiative created by **Novu** to support and amplify the voices of upcoming developers in the open source community.