

## Ghige Soham Ravindra

UG (IV Year II Semester)

BS-MS (Economics)

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Indian Institute of  
Technology  
Roorkee



### Area of Interest

Software engineering, Full stack development, Systems design, Distributed backend system, Data science, Deep learning

### Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2024	BS 4th Year	Indian Institute of Technology, Roorkee	8.12
2021	Intermediate (Class XII)	Maharashtra HSC Board	84.80 %
2019	Matriculate (Class X)	Maharashtra SSC Board	89.80 %

### Internships

**Microservices Testing & Debugging** | IIT Roorkee - Worked under Professor

October 2024 - November 2024

- Worked on a **microservices architecture** leveraging Django and Django REST Framework (DRF) for developing RESTful APIs.
- Focused on testing and debugging microservices built using **Django REST Framework (DRF)**, with asynchronous task handling via **Celery workers** and message brokering using **RabbitMQ/Redis**.
- **Identified and resolved bugs** in the codebase, contributing to fault tolerant and more efficient service modules.
- Participated in **writing system design** documentation, including flow diagrams, API schemas, and database structures.

### Projects

#### Sylva - Portfolio Advisory Site

- **Objective** - An equity investments advisory site, featured by -
- **Authentication** - Google OAuth token based authentication, users can create profile by signing up with their google account
- **Risk Profile** - Users can create their risk profile by answering some questions upon sign up
- **View Portfolio** - Users can get portfolio for equity investments based on their risk profile, generated by backend implemented in Django using concepts from finance and mathematics, such as Markowitz optimization, random matrix theory.
- Tech Stack - **React, Typescript, Django, MongoDB, Firebase**
- Demo - <https://sylva-jt4j.vercel.app/>

#### Storm - Whiteboard tool

- **Objective** :A online whiteboard tool that allows users to create digital drawings and visualizations.
- **Key Features** -
- **Collaboration** : Users can collaborate with other users by creating sessions, implemented with **web sockets**
- **Save** : Users can save their work on cloud or locally in JSON format
- Tech Stack - **React, Typescript, Nodejs, Web Sockets, MongoDB**
- Demo - <https://storm-coral.vercel.app/>

#### Quill - Social Media Site

- **Objective** - A Social Media Site, featured by -
- **Authentication system** : Users can authenticate by signing up/ in with email and password with **JWT-session based authentication**
- **Profiles** : User can create and customize their profiles. Also can follow others' profiles
- **Private messaging system** : Users can send private messages and media to each other, implemented with **Web Sockets**
- **Latest Feed** : Users can post text, images, links and get posts from their followers in the feed
- **Content sharing and reacting** : Users can like, comment, share and save posts
- Tech stack - **Reactjs, Typescript, Nodejs, Web Sockets, Firebase, Github, CI/CD**
- Demo - <https://quill-7942.vercel.app/>

### Skills

Computer languages	Java, Typescript, Python, C++, Javascript, Linux, Rust
Software Packages	Git, Github, Linux, Reactjs, Nodejs, Django, Firebase, Nextjs, Apache Kafka, AWS, Docker, Kubernetes, Redis, RabbitMQ
Languages Known	English, Hindi, Marathi

### Positions of Responsibility & Extra Curriculars

**Coordinator** | Placement and Internship cell IIT Roorkee

August 2022 - August 2023

- Coordinated communication between the college and various companies to facilitate the placement and internship process.
- Organized and managed testing and interview schedules, to ensure for smooth and efficient selection process.
- Invited companies to participate in the placement and internship programs, conducting outreach and follow-up calls to build and maintain relationships.