

# IRSHIT MUKHERJEE

+91 9062886431    mukherjeeirshit50@gmail.com

[www.linkedin.com/in/irshit-mukherjee-693a99219](https://www.linkedin.com/in/irshit-mukherjee-693a99219)    <https://github.com/IRSHIT033>

<https://irshit-dev.vercel.app/>

Enthusiastic developer dedicated to making a positive impact on the world through code

## Education

### Academy of Technology

Apr 2020 – Jul 2024

B Tech., Computer Science Engineering

## Achievements

- Led a team of developers to secure First Runner Up honors at MLH HackHeist 2.0 Organised by Major League Hacking, demonstrating strong collaboration and problem-solving skills.
- Selected as a speaker for Google Developers Group Cloud Kolkata, showcasing my technical expertise and ability to effectively communicate complex topics to a broad audience.
- Championed a winning project at HackForBengal 2.0, collaborating effectively with teammates to leverage Google Cloud, Postman, and Flow Blockchain technologies.

## Experiences

### Backend & DevOps Developer

Feb 2024– June 2024

Projectx.cloud

- Successfully troubleshooted a critical production line issue by working collaboratively with engineering and operations teams to identify the root cause and implement a solution
- Architected and implemented **CI/CD** pipelines for streamlined application deployment.
- Enabled secure communication within Kubernetes clusters by integrating **ACME challenge certificates**.
- Configured **Ingress** with **Google Kubernetes Engine (GKE)** for efficient load balancing with an **external Google load balancer**.
- Automated certificate management through the creation of managed **wildcard certificates**. in **google DNS**
- Skills – **Typescript, kubernetes, MongoDB, EthersJs, Solidity, Javascript**

### Backend & Blockchain Development Intern

Aug 2023– Oct 2023

Buildbearlabs

*Accomplishment Letter*

- Developed and customized a blockchain testnet utilizing Web3 technologies, including smart contract creation and dApp development.
- Automated deployments and managed **Kubernetes** clusters with a focus on **StatefulSet** configurations for **MongoDB ReplicaSets**.
- Managed Kubernetes deployments, specifically focusing on **StatefulSet** configurations for MongoDB **ReplicaSets**.
- Skills – **Typescript, kubernetes, MongoDB, EthersJs, Solidity, Javascript**

## Projects

### SAAS Tool for Real-time Task and Team Management | [Github Link](#)

Flint

- Built a comprehensive task and team management platform, enabling teams to collaborate in real-time through an interactive drawing board powered by Socket.IO and WebSockets for immediate feedback and updates.
- Designed and implemented a Kanban board system for task tracking, prioritization, and assignment, allowing team members to seamlessly manage workflows and monitor progress.
- Integrated role-based task assignment and team management features, ensuring efficient task delegation and accountability across multiple users.
- Automated deadline reminders and task updates through cron jobs, sending real-time notifications (with use of Message Queue) to keep the team informed of key deadlines and task progress.
- Optimized for real-time, multi-user collaboration, enhancing productivity with live updates across all connected clients.
- Tech-stack: **Typescript , Nest.js , RabbitMQ , SQLite DB ,Next.js , Websockets**

- Implemented user authentication and authorization using JWT tokens.
- Features : one to one chatting, Group chatting, Remove/Add Members in group, Realtime Notification, shows a other user is typing or not (realtime).
- Deployed Frontend in **Digital Ocean's Static Site deployment** and Backend in **Digital Ocean's Droplet** (A Virtual Private linux server)
- Skills – **JWT, Docker, Terraform, Typescript, Prometheus, MongoDB, Javascript**

- Atlas is a high-performance load balancer developed in GoLang. As a crucial component in distributed systems, Atlas efficiently distributes network and application traffic across multiple servers, enhancing concurrent user capacity and overall application reliability.
- Leveraging the power of Goroutines and mutex, Atlas adeptly manages concurrent requests, ensuring optimal performance.
- Supports both Weighted and normal RoundRobin, as well as the Least-Connection Algorithm, enabling flexible and efficient traffic distribution across servers.
- Enabled YAML configuration.
- Tech-stack: **Golang**

- Decentralized E-Mail is a blockchain-based email service. Allows users to e-mail a smart contract that will be generated and accepted peer to peer via e-mail. Users can control & manage their data and information.
- Email attached files are stored decentralised storage of FileCoin(**IPFS**)
- Tech-stack: **Ethers.js ,ReactJS, Hardhat, Alchemy, solidity, polygon**

## Technical Skills

---

- **Languages:** Golang, Javascript, Typescript, Python, Java, C++
- **DevOps Tools:** Kubernetes, Docker, Terraform, AWS
- **Messaging and APIs:** Apache Kafka, gRPC, GraphQL
- **Monitoring:** Prometheus, Grafana
- **Scripting and Automation:** Shell Scripting, GitHub Actions
- **Frameworks:** ExpressJS, ReactJS, React Native, NextJS
- **Databases:** PostgreSQL, MongoDB, PineconeDB, MySQL