

IRSHIT MUKHERJEE

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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**

Full Stack Development Intern

Apr 2023– June 2023

Fyipen Private Ltd

Accomplishment Letter

- Developed and deployed full-stack features for web applications using **Next.js** (front-end) and **NestJS/FastAPI** (back-end) with MongoDB for data persistence.
- Collaborated with clients to ensure high-quality solutions and implemented best practices for clean code and maintainability.
- Strengthened full-stack development skills in JavaScript (TypeScript) frameworks.
- Skills – **Typescript, Javascript, ReactJs, Python, FastAPI, Mongodb**

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

Fullstack realtime chat application built on Mern stack | [Github Link](#)

Vibe'n

- 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**

Backend of an e-commerce application in a microservices architecture | [Github Link](#)

- this backend is composed of small independent services like product, shopping and user service.
- Databases are isolated among services
- Configured **NGINX** as a reverse proxy.
- Tech-stack: **Golang, gRPC, Apache kafka, Postgresql, Github actions, NGINX**

Loadbalancer built in Golang | [Github Link](#)

Atlas

- 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 Service | [Github Link](#)

DecentMail

- 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**

Android app store and edit important links in one place. | [Github Link](#)

LinkHub

- LinkHub is an Android app that allows users to store and edit important links in one place. The app is built using React Native and Firebase and is designed to provide users with a simple and intuitive way to showcase and share their links. It is necessary for the user to log in or register their email. Newly created users will be redirected to the edit page where they can set their links URL. When they are done with their link data, users will be redirected to their main page where they can share their links or showcase them. Users' profile details are displayed in a modal popup on the main page. Any time the user wants to edit their links data, they can do so. At Firebase's Firestore, their links will be safely stored. Furthermore, users can log out anytime from the app.
- Tech-stack: **Typescript, ReactJS, Reactnative, Firebase, Expo**

Technical Skills

- Golang, Javascript, Typescript, Python, Java, C++, Kubernetes, Docker, Terraform, AWS, Apache Kafka, gRPC, GraphQL, Prometheus, Grafana, Shell Scripting, Github actions, ExpressJs, ReactJS, Reactnative, NextJS, PostgreSQL, Mongodb, PineconeDB, MySQL.

Skills

- Strong Communication Skills
- Team player
- Logical