

# Ashish Newar

+91 9394857874 | [newarashish200@gmail.com](mailto:newarashish200@gmail.com) | [linkedin.com/in/ashish-newar](https://linkedin.com/in/ashish-newar) | [github.com/AshNewar](https://github.com/AshNewar)

## EDUCATION

### Indian Institute Of Technology Kanpur

Bachelor of Science in Economics

IIT Kanpur, UP , India

Oct. 2022 – May 2026

### Jawahar Navodaya Vidyalaya

High School

Assam

Aug. 2015 – May 2022

## EXPERIENCE

### Web Executive

Student Placement Portal

May 2023 – June 2024

IIT Kanpur , Kanpur

- Managing Recruitment Automation Portal for IIT Kanpur, facilitating the interaction between **1700+** students and **500+** companies during the SPO internship and placement drive
- Maintained the backend using Golang , implementing a highly scalable microservices architecture for robust performance
- Collaborated with a team of 6 developers, integrating the frontend with the backend through real-time type-based API calls

### Frontend Engineer

Hopnmove Private Limited

Sep. 2023 – Oct. 2023

Remote

- Developed a website for a startup to provide daily updates of the work using NextJS, prioritizing a positive user experience
- Collaborated with a team of 5 members to implement modern optimization techniques like Lazy loading and Browser caching

## PROJECTS

### Wrk | Docker, **Kubernetes**, ReactJS , PostgreSQL, MongoDB , MYSQL , NodeJS , **ElasticSearch** Feb 2024 – June 2024

- Engineered a robust, scalable application deployment pipeline using **Kubernetes** and **Docker**, enabling seamless transitions across different environments while enhancing deployment speed by **35%** and reducing rollback incidents by **15%**
- Automated CI/CD pipelines via **Jenkins** with Slack webhooks, published Helper package for **25+** middleware and interfaces
- Leveraged **Microservices** Architecture for modular development, using MongoDB, PostgreSQL, and SQL for data management
- Utilized Redux Toolkit & RTK Query which handles **30+** API endpoints for efficient data fetching, improving performance
- ElasticSearch and Kibana for log and search and APM for performance monitoring, reducing incident investigation time by **50%**

### Scalable Chat Service | Redis , SocketIO , NextJS , KAFKA , Prisma

Jan 2024 – Feb 2024

- Engineered a real-time chat system that can manage over **5,000+** user interactions daily, improving response times by **40%**
- Handles traffic from different Socket server with Redis PUB/SUB mechanism, achieving 60% reduction in latency and server load
- Data transmission through **Kafka** to boost throughput by **45%**, with Postgres and Prisma to manage data efficiently

### JustPostIt | React , NodeJS , ReduxToolKit , RabbitMQ , TailWindCss , Service Workers

Nov 2023 – Dec 2023

- Developed a Social Media App, with **15+** functionalities, Leveraged Docker for containerization, and **Dozzle** for log monitoring
- Integrated Push Notifications using Service Workers, real-time Chat and notifications via Socket.io, and Redux Toolkit for state management, resulting in a **30%** increase in session duration, **83%** faster chat response time, **40%** reduction in server load
- Integrated **RabbitMQ** for asynchronous communication across the platform, increasing message processing capacity by **250%**

### Website Deployer | AWS , Docker , Postgres , Redis

June 2024

- Built a Website Deployer using **AWS**, which creates new Docker instances for each user on **ECS** (Elastic Container Service)
- Created **S3** Bucket for storing all static file content, also implemented a Reverse proxy to have easy access to the deployed sites
- Utilized Redis **PUB-SUB** mechanism and Socket listeners for real-time log access, increasing log monitoring efficiency by **50%**

## KEY COMPETITIONS

### INTER IIT TECH MEET 12.0 | Python, FastAPI, React, KAFKA , APTOS , Move

Nov 2023 – Dec 2023

- Develop a Decentralized App (**DApp**) for Futures trading leveraging the unique capabilities of the Aptos Blockchain
- Implemented **Aptos Blockchain** for secure and transparent transactions, integrating Petra Wallet and using **Python** and **FastAPI** to build a robust Backend to record real-time price changes for algorithmic trading
- Utilized Kafka for high-throughput(**1000** events/second), storing data for real-time charts and candlesticks for data visualization
- Achieved a **25%** reduction in gas usage, resulting in a **45%** decrease in transaction fees compared to other chains, due to the innovative parallel execution mechanism

## TECHNICAL SKILLS

**Languages:** Java , Python , C/C++ , SQL , Postgres , JavaScript , GoLang , Python , Solidity , Move , Bash

**Frameworks:** React , NextJS , Node.js , Jest , Material-UI

**Developer Tools:** Kubernetes , Minikube , Git , Nginx , Docker, GraphQL , MATLAB , Excel, VS Code , IntelliJ