

# MOHIT KUMAR

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## EDUCATION

### Indian Institute of Information Technology, Nagpur

Bachelor of Technology in Electronics and Communication Engineering

Dec'2021 - May'2025

Nagpur, Maharashtra

## EXPERIENCE

### Rust developer @coinswap

Fellowship

Sep'2024 - Present

Remote(Bengaluru, India)

- Actively collaborating on critical features and improvements for coinswap, including DNS management, custom logger, and testing frameworks. The projects is supported and funded by HRF and opensats.

### Summer of Bitcoin @coinswap

Open Source Developer

May'2024 - August'2024

Remote(Bengaluru, India)

- Spearheaded the integration of Compact Block Filters (BIP157/158) using Rust, cutting synchronization time by 80% for light-client mobile devices and substantially bolstering Taker wallet privacy over Bitcoin Core RPC synchronization.
- Engineered a fee estimation feature for transactions, enhancing user experience and increasing successful transaction.

### Code4GovTech (Swasth Alliance)

Software Developer Intern

July'2023 - Sept'2023

Remote(New Delhi, India)

- Developed and executed implementation of a JavaScript SDK for HCX, revolutionizing the communication framework for health claims and ensuring industry compliance, which enhanced processing efficiency by 35%.
- Architected a modular, scalable solution with robust encryption and data protection strategies, ensuring the secure and reliable processing of health claim data.
- Conducted comprehensive integration testing, achieving coverage for 50% of the codebase. The work is available at Swasth-Digital-Health-Foundation.

### Summer of Bitcoin @eclair

Open Source Developer

May'2023 - Aug'2023

Remote(, India)

- Designed and implemented the Eclair CLI in Kotlin/Native, under CTO of Acinq; enhanced Lightning Network functionality, enabling faster Bitcoin off-chain transactions and improving overall network efficiency.
- Crafted a feature-rich, modular code framework using Object-Oriented Programming; incorporated auto-complete and embedded documentation, optimizing user interactions and cutting network operation management time by over 40%.
- Conducted comprehensive unit testing to reach over 90% code coverage, resulting in a 35% reduction in user-reported issues and a smoother user experience, enhancing overall software reliability.

## PROJECTS

### BlogX - Micro-Blogging Platform

Go, Next.js, PostgreSQL, Redis, Docker, and RESTful APIs

June'2023-Dec'2023

- Designed a scalable microservice backend for a micro-blogging platform using Golang, with services for Authentication, Blog, User, and Feed management.
- Implemented thorough API features including user auth, CRUD for posts, social networking, and custom feed.
- Containerized with Docker, added HAProxy load balancing, and Swagger UI documentation for efficient deployment and integration.

## TECHNICAL SKILLS

### Languages:

C++, Rust, JavaScript, TypeScript

### Tools:

Linux, Git, JUnit, Docker, AWS

### CS Fundamentals:

Data Structures & Algorithms, Computer Networking, OOPs, DBMS, Operating Systems

## ACHIEVEMENTS

- Secured Global Rank 71 in Starters 136 Divison 2 and rated 5-Stars (2003) on CodeChef.
- Attained Specialist rating of 1449 onCodeforces, in just 6 contests.
- Selected for Indian National Mathematical Olympiad (INMO), by securing top 3 State Rank in RMO.

## LEADERSHIP / EXTRACURRICULAR

### Google Developer Student Clubs - Open Source Lead

Aug'2023 - May'2024

- Facilitated hands-on sessions to promote FOSS and open source principles, enabling 50+ students to contribute for the first time, resulting in a 30% growth in community involvement.

### Code4GovTech IIITN - President

Jan'2023 - May'2023

- Founded and lead the C4GT IIITN Chapter, conducting multiple meet-ups and workshops enabling over 100 students to actively contribute to 10+ open source projects on Digital Public Goods and Infrastructure.