

MUZAFFAR AHMAD BHAT

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EDUCATION

- NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR
B.Tech - Computer Science Engineering

2019 - 2023
GPA: 8.742

EXPERIENCE

Software Engineer Cypherock

Aug 24 - Present • 1 yr 1 mo

- Developed end-to-end **chain support** for **XRP, StarkNet, Solana tokens, ICP, Constellation, and Stellar**, from **Cypherock X1 firmware development** (C) to **Cysync client-server integrations** (TypeScript, React, Node.js), progressing the solution from **PoC to production**.
- Built **crypto C2C swap/exchange feature** across firmware and client-server layers, enabling seamless cryptocurrency exchanges within the Cysync wallet ecosystem.
- Engineered **BTC SegWit and Taproot address/transaction support** across firmware and client-server stack, enhancing Bitcoin functionality.
- Implemented advanced **multiparty homomorphic encryption algorithms & homomorphic operations** including addition, scalar multiplication, multiplication, and 2-degree polynomial evaluation using **Beaver triples** with threshold access structures.
- Mentored and trained interns, junior developers, and Summer of Bitcoin candidates**, guiding them across multiple blockchain and cryptography projects.

Software Development Engineer Kalpkriti

Apr 23 - May 24 • 1 yr 2 mos

- Developed innovative features for TweenCraft: Cartoon video maker animation app, leading to a significant increase in user engagement and surpassing **8M** downloads milestone.
- Built **reel creation using imported or selected audio**, resulting in a **60%** enhancement in user-generated content output through precise amplitude-based lip-syncing.
- Engineered **cinematic filters** to enhance user-generated content, enabling dynamic focus on speaking characters and immersive camera effects.
- Spearheaded **UI/UX enhancements** for streamlined story creation, simplifying the storytelling process for users.
- Designed and **optimized APIs to enhance app performance** and scalability, improving overall user experience.
- Developed **feed feature** allowing users to publish, discover and watch published reels based on generated rating, contributing to a **30%** increase in user base through enhanced social interaction and content discovery.
- Reviewed code/designs, ensuring engineering standards and **mentoring** junior developers.
- Streamlined **development/testing/release processes** to ensure smooth workflow and the delivery of a high-quality product to users.

Software Development Engineer Intern Juspay

Jan 23 - Apr 23 • 3 mos 18 days

- Worked in the payment page team - a cross platform, scalable solution that gives merchants access to all and ever-changing payment methods with a single integration.
- Designed **Database and APIs** along with my team members for performance, scalability and availability.

Software Development Engineer Intern Kalpkriti

Nov 21 - Feb 22 • 4 mos

- Worked in the front-end team for the mobile application TweenCraft.
- Built new home screen design of the app where YouTube embedded videos are shown under different categories and much more using **C++** primarily.

SKILLS

Top Skills

Full-Stack & Web3 Development, Problem Solving, Data Structures & Algorithms, Docker, Linux, Database Design, API Design, Object Oriented Design, Blockchain

Languages

C/C++, Javascript, Typescript, NodeJS, SQL

CourseWork

DBMS, Operating System, Network Systems

Frameworks/Library

ExpressJS, KoaJS, Prisma, Mongoose, NextJS, ReactJS, Redux, Tailwind CSS