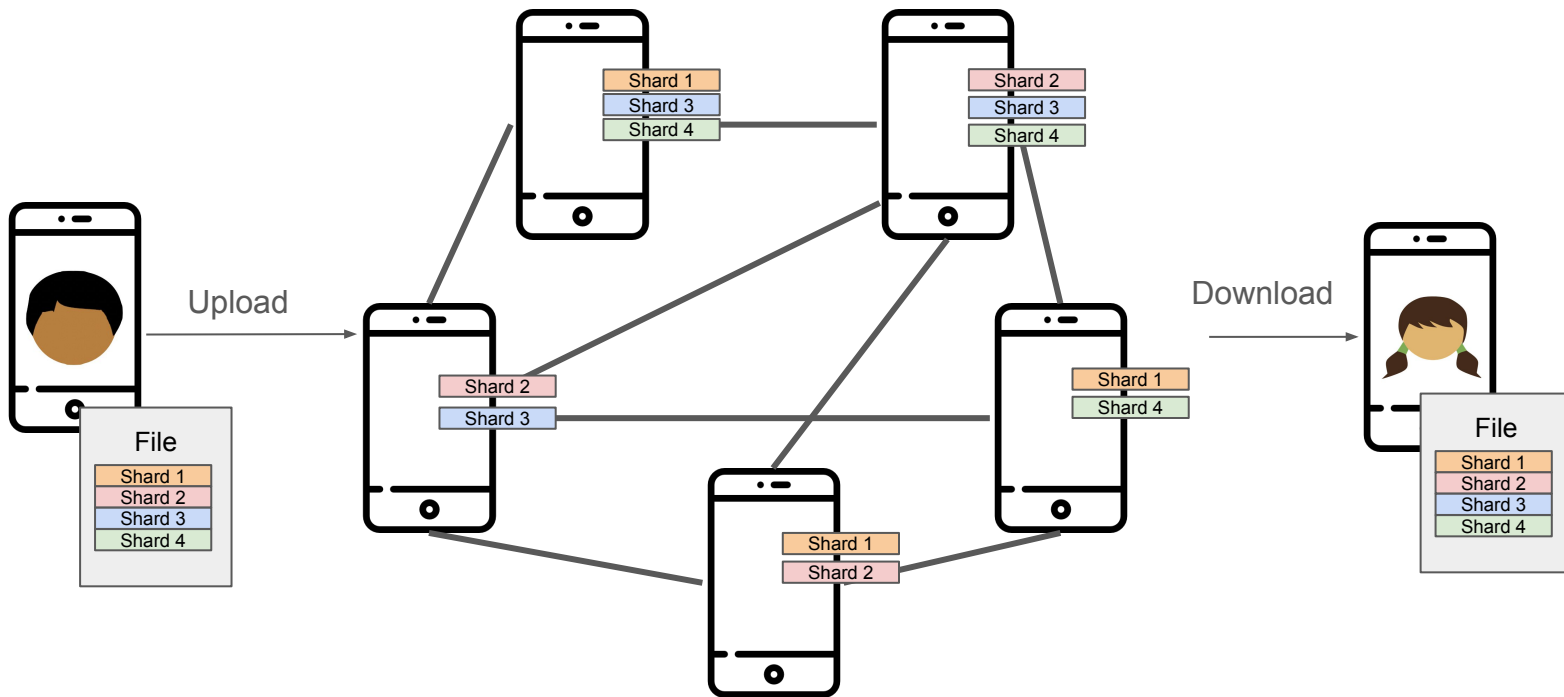# About me

- Masters in Computer Science student at **University of Illinois Urbana Champaign** (UIUC) - graduating Dec 2024
- Software Engineer with **~5 years** of work experience
  - Software Engineer Intern - **Motorola Solutions** (May '24 - July '24)
  - Senior Software Engineer - **Sears** (Sept '22 - May '23)
  - Senior Software Engineer - **Samsung Research** (June '18 - Mar '22)
- Bachelors in EE with Minor in CS (Systems) from **Indian Institute of Technology, Kanpur** (IITK)
- Interests and Experience: *Distributed systems, Large scale Distributed Storage, Cloud Computing, Database Management, Back-end development, Blockchain*
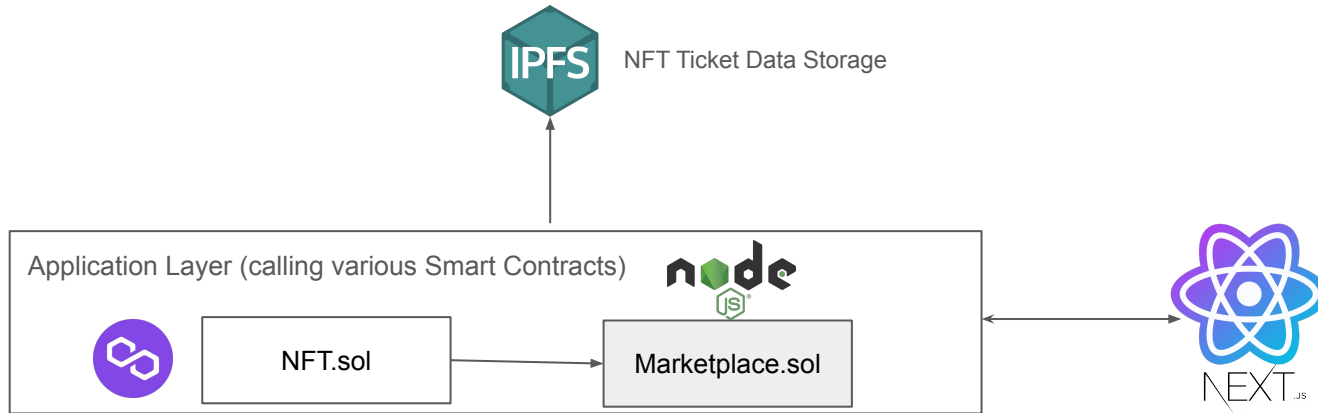
Work Ex - Samsung Research (Sr SDE)

- **Mobile-based Fault tolerant Distributed File system** with File sharding, High availability via replication, Content discovery and routing via Distributed Hash Tables (DHTs) and efficient peer-2-peer networking
- Test Deployment: 120 node AWS EKS Fargate setup - Upload 1-2 sec, Download 10 ms for 1 MB file
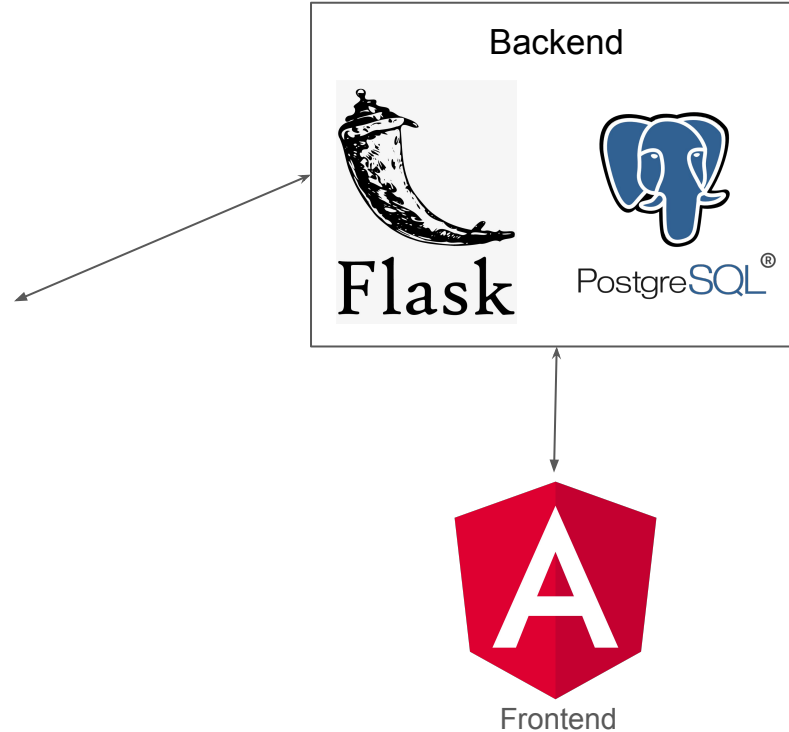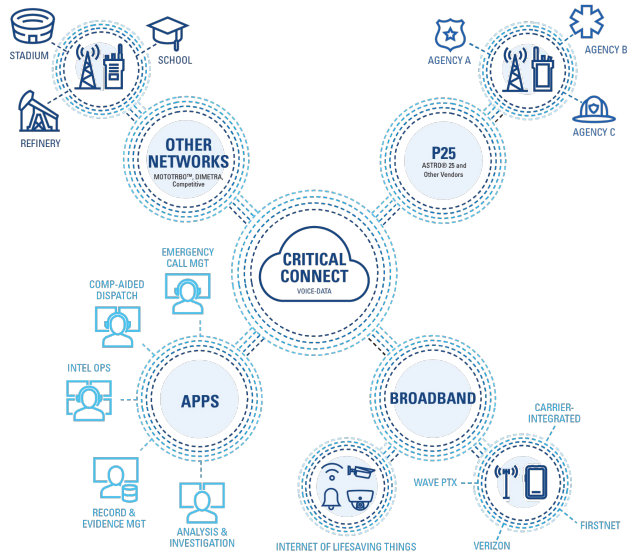- *Impact:* part of Samsung's light-weight blockchain framework

Work Ex - Sears (Sr SDE)

- **Event Ticketing Web Marketplace** with tickets as NFT. Smart Contract on Polygon TestNet using Solidity.
- NodeJS-web3js Back-End and NextJS Front-End
- *Impact*: Expanding into web3 based event ticketing industry. Deployment cost reduced by 50x
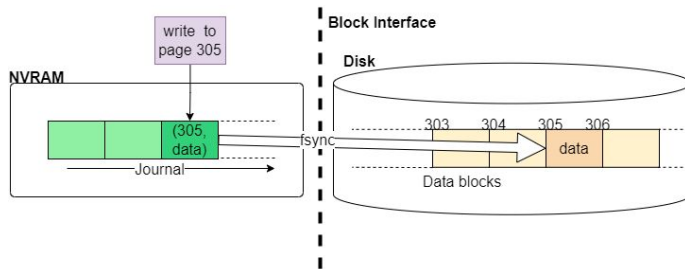
Work Ex - Motorola Solutions (SWE Intern)

- Automation for interoperability requests of Radio device groups on **Motorola critical connect web portal**
- Backend - Flask + PostgreSQL (Database), FrontEnd - Angular
- *Impact*: Faster onboarding of new radio device interoperability requests by Mission critical organizations.

Source:https://www.motorolasolutions.com/en_us/products/command-center-software/broadband-ptt-and-lmr-interoperability/critical-connect.html

Other projects

1. **NVM Journaling**: distributed key-value data store with non-volatile memory (NVM) as a journal and a cache to optimize throughputs (read - 1.5x, write 4x) - reduces file sync from 2 to 1

2. **MapleJuice**: Hadoop like task scheduler with a native Distributed file system and gossip based membership protocol build from scratch. (link)