ADITYA KUMAR SINGH

Junior @ ABV-IIITM Gwalior

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EXPERIENCE

Konnektr
Blockchain Lead
📅 October 2022 – Present

- Helping develop a decentralized social media application on top of **Lens Protocol** with **DM** and **Video meeting** features.
- Contributed to designing the system's **architecture** and implementing **user authentication** and **data storage** protocols.
- Integrated **XMT**P and **Huddle01** for DMs and video meetings, **created new content types**, and **modified the XMTP SDK** to support them.

Indian Institute of Technology Kharagpur
Research Intern
📅 August 2022 – Present

- Built models (incl. SVR and ANN) and a prototype to predict **Kolkata's PM2.5 levels**. 90% of the predicted values are within an acceptable error range.
- Devised algorithms for finding the **least air pollution exposure** and **least CO2 emission routes.**
- Developed a web based routing application using **Mapbox GL JS**, **GraphHopper** and **React**.

PROJECTS

MediChain 🐙
Decentralized Telemedicine and Medical Record System
📅 July 2022 – Present

- Developed an DApp for storing sensitive medical files on **IPFS** and secured them using **2048-bit RSA encryption**.
- Currently integrating **DAO** with existing system and adding DM and video meeting features for **improved doctor-patient communication**.
- **Scaled** system using **The Graph** protocol for storing encrypted data and improved **portability** of sensitive files.

Golang Projects 🐙
BotterGo | Go backend for Resturant Management System
📅 February 2023

- **BotterGo**: Developed an NLP featured slack bot using **Go** using **wit** for NLP and **WolframAlpha** as knowledge repository.
- **RMS Backend**: Created the backend with JWT auth for a Resturant Management System using **Go** and **MongoDB**.

NFT Marketplace 🐙
An NFT marketplace where people can buy and sell NFTs
📅 June 2022

- Developed an end-to-end decentralized NFT marketplace where users can **list, update listing, buy NFTs and withdraw** proceeds.
- Created and unit tested **ERC721 token standard** adhered smart contract.
- Indexed data emitted by transactions on decentralized indexing protocol **The Graph** for increased scalability.

EDUCATION

B. Tech. in Computer Science
ABV-IIITM Gwalior, India
📅 December 2020 – Present (till 5th Sem: 8.86 CGPA)

AISSCE, CBSE XII
DAV Public School Bariatu Road Ranchi
📅 April 2017 – May 2019(93.6%)

SKILLS

- **Programming Languages**
  C/C++ Golang TypeScript
  JavaScript Python Solidity
- **Web3 Tools and Protocols**
  Hardhat The Graph XMTP
  Push Protocol Lens The Graph
  OpenZeppelin Chainlink
- **Frontend and Backend Frameworks**
  NextJS ReactJS NodeJS
  ExpressJS Flask
- **Databases and Query Languages**
  GraphQL PostgreSQL MongoDB
- **Cloud Hosting Decentralized Storage**
  IPFS web3.storage Filecoin
  Fleek/Vercel Docker Kubernetes
  KinD GCP AWS
- **Machine Learning**&
  Numpy Pandas Sklearn
- **Other Tools and Skills**
  Git Mocha+Chai Bash Scripting

ORGANIZATIONS

Student Gyan Movement (SGM)
Technical Executive
📅 Sept 2022 – Present

Uthaan - Journalism Club @ IIITM
Content Writer
📅 Jan 2021 – July 2021

LANGUAGES

- **English** - Professional Fluency
- **Hindi** - Native Speaker

INTERESTS

Tech Blogging Music Swimming