Ayush Gupta

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WORK EXPERIENCE

Ecosystem Builder (Senior Software Engineer)

Gnosis Builders 🗷

12/2022 - Present

Remote Contractor

Gnosis Chain is one of the first Ethereum sidechains

- Optimistic Rollup L2 (Gnosis): Developed Sequencer & Validator components with Geth, emphasizing architecture design, transaction sequencing, malicious block filtering, and L2-to-L1 asset bridging.
- mGNO Validator Deposit (Gnosis): DApp (https://mgno.validategnosis.com) for seamless GNO token deposits and validator funding on beacon chain.

Senior Software Engineer

Samsung Research Institute - Bangalore 🗷

03/2020 - 12/2022

Largest R&D Center outside of South Korea in the Samsung group.

- Team received "Samsung Citizen Award" under the category of "Group Achievement" (awarded to the top 5%).
- Received "Samsung Citizen Award" under the category "People & Processes" (awarded to the top 5%).
- Mentored interns at Samsung Accounts Data Intelligence Lab.

Co-Founder & CEO | Grant from Polygon Eka Network

05/2021 - 10/2022

- Developed EKA Network dapp for metaverse adoption, asset rentals, and NFT loans. Built backend for social media with smart contract support for NFT Catalogue & loans.

Mentor

SAIC, IIT (BHU) Varanasi 🗷

2020 - 2022

- Mentored 5 IIT (BHU) Varanasi students yearly via the Student Alumni Interaction Cell's Mentorship Program.

Software Engineer

Samsung Research Institute - Bangalore 🗷

07/2018 - 03/2020

- Received Award for exceptional tenacity and autonomy in resolving project issues as owner.

OTHER ACHIEVEMENTS

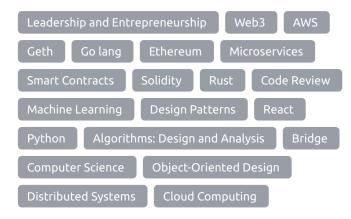
Exploring Web3 - My learnings from working & investing in Web3 🛂

Authored a book based on my experiences in Web3 Ecosystem

Judge at IRIS - IIM Indore's Annual Fest 🛂

Delighted to judge and learn from IIM Indore's esteemed marketing event.

SKILLS



OFFICIAL PROJECTS

Optimistic Rollup L2 (Gnosis)

- Worked on developing Sequencer & Validator for and Optimistic Rollup EVM compatible L2 solutions using Geth
- Worked on the architecture design and implementation of Sequencer & Validator with emphasis on transaction sequencing & it's retry, malicious block filtering, acceptance and rejections of Assertions.
- Worked on the architecture design and implementation of bridging protocol on L2 to bridge assets from L2 to L1 & vise-a-versa
- Using Docker, I streamlined deployment and testing for rapid iteration and seamless integration. I also bolstered system stability and security with robust error handling and custom logging.

mGNO Validator Deposit (Gnosis)

- Developed mGNO Validator Deposit DApp, facilitating GNO token deposits on beacon chain and easy validator funding.
- Optimized transactions between smart contracts and ensured a reliable user experience with robust architecture.
- Innovated a clever solution to enhance functionality by routing transactions between pre-existing deployed smart contracts, maximising the app's capabilities.

EKA Network

- Developed the EKA Network decentralised app, promoting metaverse adoption through affordable asset rentals and NFT collateralized loans via smart contracts.
- Created the backend for a centralized microservices-based social media platform, offering users a cohesive community experience.
- Implemented robust architecture design, smart contracts for NFT collateralized loans, and error handling to ensure a seamless and secure user experience.

Metadata Token Store (Samsung)

Built scalable Go microservice for Samsung Account's 1.5 billion users, managing token info across all microservices.

EDUCATION

B.Tech in Computer Science & Engineering Indian Institute of Technology (BHU) Varanasi

2014 - 2018