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 (golang), 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 Golang 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.
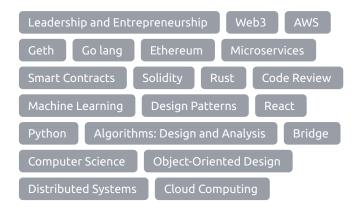
OTHER ACHIEVEMENTS

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

Leadership and Entrepreneurship | Web3 | AWS
Geth | Go lang | Ethereum | Microservices
Smart Contracts | Solidity | Rust | Code Review
Machine Learning | Design Patterns | React
Python | Algorithms: Design and Analysis | Bridge
Computer Science | Object-Oriented Design
Distributed Systems | Cloud Computing

OFFICIAL PROJECTS

Optimistic Rollup L2 (Gnosis)
- Worked on developing Sequencer & Validator for and Optimistic Rollup EVM compatible L2 solutions using Geth (golang)
- 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.

EKA Network
- Developed the EKA Network decentralised app, promoting metaverse adoption through affordable asset rentals and NFT collateralized loans via smart contracts.
- Created the Golang 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.

Collabo (Samsung)
- Developed the signup service for Samsung Account using springboot, creating 500k new accounts daily.

EDUCATION

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

2014 - 2018