

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

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
- 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 & vice-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 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