

# 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 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