Ayush Gupta

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WORK EXPERIENCE

Tech Lead
Gnosis Builders ⇗

09/2023 - 01/2024   *Remote Contractor*
Gnosis Chain is one of the first Ethereum sidechains

- Developed **Zipline**, a permissionless block header oracle for secure Gasper-EVM chain transfers, leading a team from concept to deployment with innovative technologies and strategic leadership.

Senior Software Engineer
Gnosis Builders ⇗

12/2022 - 09/2023   *Remote Contractor*

- **Specular Network:** Developed Sequencer & Validator for EVM L2 Optimistic Rollup and a bridge dApp for L1-L2 asset transfers, focusing on security and transaction efficiency.
- **mGNO Validator Deposit:** Created the mGNO Validator Deposit DApp, combining efficient GNO token handling on the beacon chain with optimized, innovative smart contract transactions.

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%**).
- Developed **Metadata T.S.** for 1.5 billion Samsung users.

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.

Software Engineer
Samsung Research Institute - Bangalore ⇗

07/2018 - 03/2020

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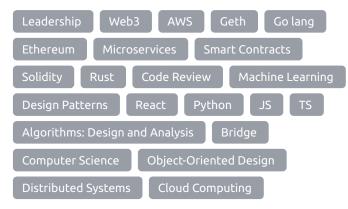
OTHER ACHIEVEMENTS

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

OFFICIAL PROJECTS

Zipline
- Led Zipline as Tech Lead, managing a team of five from project inception to completion, focusing on leadership and technical strategy.
- Created Zipline using fault proofs and light-client protocols for secure blockchain communication.
- Built an oracle and emulator to validate and relay block headers accurately.
- Deployed smart contracts for seamless chain-to-chain interactions.

Specular Network (Gnosis) ⇗
- Developed Sequencer & Validator for Optimistic Rollup EVM L2 solutions using Geth, focusing on transaction sequencing and security.
- Individually designed and developed a bridge dApp for asset transfer between L1 and L2 networks.

mGNO Validator Deposit (Gnosis) ⇗
- Created mGNO Validator Deposit dApp for streamlined GNO token deposits and validator funding on the beacon chain.
- Optimized and innovatively routed transactions between smart contracts, enhancing app functionality and ensuring a robust, reliable user experience.

EKA Network
- Developed EKA Network dApp for metaverse engagement with affordable rentals and NFT-backed loans.
- Built a secure, microservices-based social media backend with smart contracts for NFT loans.

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