Aman Raj

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EXPERIENCE

Biconomy
April 2022 - Present
Blockchain Engineer
- Over the past two years, I have been working on the comprehensive development of the EIP4337 implementation / Account Abstraction layer.
- Working on the wallet contracts, bundlers / relayers and the integration with the Biconomy SDK.
- Worked on Session Key Manager module in the SDK to generate session EOAs and store the merkle proof on MPC network. Made the UX better to onboard over 300k+ smart account users.
- Wrote the Passkey Registry and Secp256r1 contracts for the smart accounts.

CertiK
Aug 2021 – April 2022
Blockchain Engineer
- Worked on upgrading the shield module in Shentu chain built using Cosmos SDK.
- Worked on Solana/CosmWasm and cosmos chain projects auditing (private).

Polygon (Matic Network)
March 2021 - Aug 2021
Blockchain Engineer Intern
- Developed the NFT Bridge to transfer assets (ERC721, ERC1155) between root and child chain.
- Enhanced the WalletWeb V2 to catch dropped transactions and wrote tests for the matic.js library.

Hapramp Studio
Sep 2020 – Feb 2021
Software Engineer Intern
- Worked on Hapramp's GoSocial product with 500k+ downloads. (gosocial.io).
- Leveraged my knowledge of Next.js, Redux, and SSR to develop the product's web version from scratch.

SKILLS

- **Languages** - TypeScript (TS/JS), Solidity (Yul), Go, Rust, C++
- **Web Development** - NodeJs, NestJS, go-kit, gRPC, Gin, REST, SQL, Redis, React.js, Next.js, Hooks/Redux
- **Blockchain**- EVM, Graph Protocol, ChainLink, ethers/viem, Cosmos SDK, Cosmwasm
- **Others** - Git, AWS, Docker, Load Balancing, Reverse Proxies, Kubernetes, Linux

PROJECTS

Hybrid Intent Virtual Machine
Rollup, VM, Assembler, Stackr, AA
- Built a stack based domain specific language for dApps to write deterministic intents.
- Built the network consensus rollup for these solvers to behave properly using Stackr.

WiseWallet - AA
Rust, Cosmwasm, Neutron, Cosmos-SDK
- Account Abstraction stack for projects on Cosmos. A GPT intent to generate AA transactions from string.
- Unique Limit Module feature for non custodial limit orders.

ACHIEVEMENTS

- **ETHIndia 2023**: Built Intent VM and became the top finalist in ETH India hackathon.
- **Innovate X Nibiru Cosmos Hackathon:** Won first prize for building AA stack and limit module on cosmos.
- **Encode EVMOS Hackathon:** Won first prize for building a relayer between EVM and EVMOS so that EVM chains can communicate with 53+ chains of Cosmos using Interchain Messaging.
- **ETHIndia 2022:** Polygon Winner for building Infra of polygon edge app-chains to communicate amongst them.
- **Encode X Near**: Won first prize in Near hackathon for building a decentralised clubhouse.
- Also won several other hackathons like Comdex Hackathon, Algorand Innovate, Harmony One, etc.
- **ETHIndia Fellowship**: Selected in the 20 web2 developers to learn and build Web3.

EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY – Vadodara
2018 - 2022
Bachelor of Engineering, Computer Science
Cumulative GPA: 7.7/10