

SEPEHR MIRNASROLLAHI


BLOCKCHAIN/BACK-END

CONTACT

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 [@sepehr-mnp](https://github.com/sepehr-mnp)

 Tehran/Tehran

SKILLS

Blockchain, Solidity,

Golang, Web3.js, Rust, circom

Git, Mocha, Ganache,

RabbitMQ, Goent, ZK-SNARKs

gRPC, Docker

EDUCATION

Amirkabir University of

Technology

09/2021 - present

Computer engineering

Current grade: 18.30

University entrance exam

rank: 90th in second area

EXPERIENCE

Exmodules

Full time

04/2023 - 01/2024

Blockchain developer

OVRXLAB

Full time

01/2024 – 08/2024

Blockchain developer

EAS

Part time

02/2024 – 08/2024

Blockchain developer

Back-end developer

Nebka

Full time

08/2024 – present

Blockchain developer

PROFILE

As an accomplished Blockchain and Backend Developer, I bring a wealth of expertise in Solidity, Web3.js, Golang, Rust, and Java, specializing in the full lifecycle of smart contract development, from creation to deployment. My professional experience spans complex blockchain solutions, robust backend systems, and zero-knowledge proofs, marked by my ability to integrate advanced technologies and innovate across both EVM and non-EVM compatible blockchains. I am committed to leveraging blockchain technology to enhance security, efficiency, and scalability in digital transactions. Feel free to view my GitHub page for my personal projects.

BLOCKCHAIN TECHNOLOGY

I am well-versed in Web3.js, Ether.js, and ethClient for integrating and interacting with blockchain environments, with profound knowledge of deploying and managing tokens on platforms like Ethereum and Solana. Additionally, I am proficient in zero-knowledge proofs, including zk-SNARKs, zk-STARKs, and Circom, and have developed zero-knowledge proofs for Convolutional Neural Networks (CNNs) in vision applications, with ongoing work on proofs for generative AI. I am skilled in using Truffle, Hardhat, and OpenZeppelin for development, testing, deployment, and verification of smart contracts, with experience implementing upgradable contracts and using Chainlink for decentralized oracle networks. My work in smart contract engineering includes developing and deploying numerous smart contracts for applications such as marketplaces, financial tools, and decentralized platforms, using Solidity for EVM-compatible blockchains and Rust for non-EVM environments to enhance contract efficiency and security. I have practical experience with DeFi protocols, including Uniswap V2 and V3, for token swaps and liquidity provision directly through smart contracts. In research and development, I have contributed to blockchain projects focused on alternative solutions for Ethereum's Merkle Trie and World State, advancing blockchain data structures and storage solutions. Notably, I secured first place in Iran's largest blockchain hackathon hosted by Nobitex, showcasing my innovative approach and technical expertise in blockchain development.

BACKEND TECHNOLOGY

My backend technology experience includes building secure HTTPS servers using Echo and Gorilla Mux and managing databases effectively with GORM and ENT. I have implemented JWT for secure and scalable authentication platforms and possess a comprehensive understanding of permissioning techniques and security protocols in blockchain applications. I have engineered robust backend solutions using Golang and Java, focusing on scalable and secure applications, and have implemented microservices architecture with technologies such as Docker, RabbitMQ, and gRPC. I am experienced in managing complex databases and developing HTTPS servers with high security and reliability using Echo and Gorilla Mux frameworks.