

Morteza Mansory

SOFTWARE DEVELOPER

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Professional Summary

Self-taught software developer with 4 years of experience building client-side and backend applications integrated with blockchain smart contracts.

Experience

Application (Mobile / Desktop / WASM) Developer

2022 - Present

- Flutter / Dart

Experience:

Clean architecture, MVVM, MVC architecture, and experienced in Bloc, Getx state management's.

My Knowledge : ] 75%

Backend Developer

2023 - Present

- FastAPI (Python)

Experience:

Designed and developed RESTful APIs with authentication and JWT.

Built microservices and CRUD with modular architecture, connected to SQL databases(Postgres)

Applied clean code practices and Docker deployment for releases.

My Knowledge : ] 70%

Blockchain/Smart Contract Developer

2024 - Present

- Solidity, Web3

Experience:

Solidity: ERC20 (fee, escrow, wallet), ERC721/1155 (NFT, staking, liquidity), ERC4626 (vault), ERC4907

ChainLink: VRF, Aggregator, Proxy patterns (Beacon, Transparent, UUPS)

Security: OpenZeppelin anti-attack patterns (Storage Collision, Self Destruct)

Dev Tools: web3.js, ethers.js, truffle, web3dart, wallet-connect, web3modal

Platforms: Infura, Moralis, EVM Test Nets

My Knowledge : ] 60%

Education

Shahid Chamran University (2023 - Present)

B.Sc. in Materials and Metallurgical Engineering

Skills & abilities

- Mobile, Web Development
- Dart / Flutter (BLoC, GetX, MVVM, MVC design patterns) with animated UI UX
- Backend Development(RESTful API's)
- Python (FastAPI)
- RESTful API design, authentication, and microservices
- Clean code and modular backend architecture(FDD Clean code, MVC MVVM)
- Solidity smart contracts (ERC20, ERC721, ERC1155, ERC4626, ERC4907)
- DeFi-focused smart contract security (OpenZeppelin anti-patterns, upgradeable design)
- Integration with Web3.js, Ethers.js, Truffle, Web3dart, WalletConnect, Web3Modal

Other Hand on Skills:

- Working with SQL's databases (Postgress via PG admin)
- Basic Linux and server deployment
- Basic of C++ (ESP32 with esp-idf lib's)

Projects

- **Asset RFID Management (Full Stack. Flutter/dart, FastApi/Python)**

A mobile application for managing assets in a companies,provide user friendly and modern UI Based on Role between users(Owner, Admin, Operator) in a government to apply all government asset trades such as loan's , create , delete ,update details of a asset witch can be grouped with a category(Each government can have their unique asset, and unique category, and unique users) and also each users on a government can give loans to another government users. This app also supporting dynamic workflow logging (transfer , scan a rfid by a user and...).

Features: Role-Based Access Controll, Full Asset Lifecycle Management(Add,delete,update,loan) with timeline saved on history of a Asset ,Dynamic WorkFlow and Activity Logging, Scan RFID Tags and integration with real hardware device (ESP32-RC522 tag reader)

Technologies:

*Client-Side:*Flutter/Dart,Bloc(FDD,Clean Code), GetStorage, *Backend-Side:* FastApi/Python(JWT RSA security level)...*Hardware-Side:* using Esp-Idf libs working with RC522 Moudles.

For: **Private Customer**

Link: mortza-mansory/ECUpars

- **EcuPars Mobile Application**

A mobile handbook for heavy and semi-heavy vehicle ECU diagnostics, designed for users who need quick access to essential information in emergency situations.

Features: Applied All the requested UI just like how user favorites.

Technologies: HTML rich rendering extension for html lib in GetX statmanagment and MVVM architecture built with Custom Animated Widgets

For: **Private Customer**

Link: [mortza-mansory/ECUpars](https://github.com/mortza-mansory/ECUpars)

- **WAF Interface (Full Stack. FastAPI , Flutter)**

A web-based interface for ModSecurity WAF with reverse proxy setup for Nginx and Apache servers.

Features: User-friendly UI, reverse proxy integration, easy Debian/Ubuntu setup

Technologies: Dart/Flutter/GetX, FastAPI, WASM, ModSecurity APIs, Apache and Nginx

For: **Private Customer.**

Link: <https://github.com/Waf-Interface>

- **Smart Escrow Contract**

A secure Ethereum-based escrow smart contract for crypto deals between buyer and seller.

Features: Dynamic fee control, time-locks

Technologies: Solidity, Truffle, Ganache

For: **Education Porpose.**

Link: <https://github.com/mortza-mansory/TransferEscrowETH>

- **Staking NFT + Multi-Sig Wallet Integration**

NFT staking mechanism based on ERC721 with multisig wallet logic.

Features: NFT staking, multisig security

Technologies: Solidity

For: **Education Porpose.**

Link: <https://github.com/mortza-mansory/SolidityWallets>

- **Blockchain ChatApp (Flutter, Ethereum Contract Integration)**

A Flutter-based chat dApp integrated with smart contracts for real-world messaging scenarios.

Features: Smart contract messaging, Sepolia testnet integration, clean mobile UI

Technologies: Dart/Flutter, Solidity, Truffle, Ganache, Infura

For: **Education Porpose.**

Link: <https://github.com/mortzaCFT/ChatApp>

Interested Projects (Personal Projects)

- **DQN Trading Environment**

A reinforcement learning environment for training AI models on historical chart data, with a graphical interface for real-time monitoring of the training process.

Features: A little graphical interface for RL sweat controllers and real time results.

Technologies: Python, Flat, metplot(charts , plots), PyTorch, Numpy...

For: **Education Purpose.**

Link: [DQN-Trading-Environment: A environment for training Deep-Q-Learning RL.](#)

- **Api Client in CPP**

A simple and lightweight HTTP client library for C++ for interacting with backend services and APIs.

Features: A C++ HTTP backend built using curl and winsock2 libs.

Technologies: A C++ HTTP backend built using curl and winsock2 libs.

For: **Showing CPP can be used in this purpose.**

Link: [ApiClient Cpp: Let's create a curl based\(using winsock2 and curl lib's\) HTTP backend!](#)

- **ImWallet - DEX Wallet**

A decentralized wallet operating on a smart contract, providing secure on-chain transactions and management of crypto assets.

Features: Written in Flutter/Dart tested with Ganach test net.

Technologies: Flutter/Dart , Solidity Smart Contract, Web3

For: **Personal Education**

Link: [A simple DEX wallet made on top of smart contract and flutter/dart interface witch you can manage your tokens simple effective.](#)

*** Note: All the Porject Galleries(Such as ScreenShots and other can be found on [this site of mine](#))**