Mortza Mansori

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

Freelancer - Mobile/Desktop Application Developer 2022 – Present

- Flutter/Dart Android & iOS apps

Experience:

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

Freelancer - 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.

Blockchain/Smart Contract Developer **2024 – Present**

- Solidity, Application integration from web2 into 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

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 favorits.

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

For: **Private Customer**

Link: mortza-mansory/ECUpars

- **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: **Private Customer**

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, Etherum 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

- **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

Interested 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), PyTourch, Numpy…

For: **Education Porpose.**

Link: DQN-Treading-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 porpose.**

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: 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 porpose.**

Link: ApiClient_Cpp: Let's create a curl based(using winsock2 and curl lib's) HTTP backend!

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