

Smart Contract Portfolio - Amir

ERC-20 Token Contract

Developed a secure and gas-optimized ERC-20 token contract with minting and burning capabilities.

Deployed on Goerli testnet using Hardhat. Code follows OpenZeppelin standards.

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
import "@openzeppelin/contracts/token/ERC20/ERC20.sol";
import "@openzeppelin/contracts/access/Ownable.sol";

contract MyToken is ERC20, Ownable {
    constructor() ERC20("MyToken", "MTK") {
        _mint(msg.sender, 1000000 * 10 ** decimals());
    }

    function mint(address to, uint256 amount) public onlyOwner {
        _mint(to, amount);
    }

    function burn(uint256 amount) public {
        _burn(msg.sender, amount);
    }
}
```