

# DENYS DATSKOV

## Solidity/Blockchain Developer

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### Summary

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Interested and ambitious blockchain developer with experience in JavaScript, Python and Solidity with a deep understanding of smart contracts and blockchain technologies. I aspire to participate in projects aimed at creating decentralized financial solutions.

### Projects

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#### NFT Marketplace

Developed an NFT marketplace enabling users to mint, buy, and sell non-fungible tokens. Implemented smart contracts for minting NFTs with unique metadata stored on IPFS. Designed the marketplace to handle token listings and transactions on the Ethereum blockchain, allowing users to set fixed prices for their NFTs. The project operates on the Ethereum Sepolia testnet, making it accessible for anyone to test. Technologies used in this project:

React, Solidity, Hardhat, IPFS, ethers.js, mocha, chai.

- Gained practical experience in integrating smart contracts with front-end interfaces using React, ethers.js, and IPFS.
- Successfully deployed and tested the marketplace on the Ethereum Sepolia testnet.
- [Video](#) [GitHub](#) [Link to website](#)

#### Decentralized Exchange

Created DEX inspired by the principles of Uniswap v1. Implemented a constant market maker, liquidity pools and ERC-20 token exchange. Implemented an auction mechanism that allows users to bid in a specific token. The winner is the participant with the highest bid at the end of the auction. Technologies used in this project: React, Solidity, Hardhat, Ganache.

- Gained practical experience in smart contracts for token swapping, liquidity provision, and auction mechanisms.
- Developed a comprehensive understanding of the challenges and considerations involved in building decentralized exchanges, such as security, liquidity, and user experience.
- [Video](#) [GitHub](#)

#### Cryptocurrency Blog

Personal blog about cryptography and blockchain.

#### Translation of Ethereum Documentation

Contributed to the Ethereum community by translating official documentation into Ukrainian language. This work involved making technical information accessible and understandable for non-English speaking developers and users, helping to broaden access to Ethereum resources.

### Skills

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#### Solidity:

Strong understanding of core concepts and syntax. Practical experience in developing, testing, and deploying smart contracts.

#### Additional programming languages:

Python, JavaScript(experience in writing unit tests for smart contracts using Hardhat).

Blockchain Technologies: Ethereum, EVM, Bitcoin, Cryptography, Consensus algorithms(PoW, PoS).

#### ERC Standards & Tokenization:

Strong understanding of ERC-20, ERC-721, ERC-1155. Experience designing and implementing token contracts, including extensions like Pausable, Mintable, Proxy, etc. Familiarity with ERC-4337 Account Abstraction.

Decentralized Finance: Uniswap(v1, v2, v3), Aave(v1, v2), Flash loans, Staking, Lending, Auctions.

Tools: Foundry, Hardhat, OpenZeppelin Contracts, OpenZeppelin Defender.

## Education

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### Computer sciences

Lviv, Ukraine

Institute of Computer Science and Information Technologies(ICSIT),  
department of Automated Control Systems(ACS), specialty Computer  
Sciences(CS), Lviv Polytechnic National University  
BACHELOR'S DEGREE

2020 - 2023

### Computer engineer

Khmelnytskyi, Ukraine

Speciality Computer Engineering, Khmelnytskyi Polytechnic College  
JUNIOR SPECIALIST

2016 - 2020

## Languages

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English Intermediate ●●●●●

Ukrainian Native ●●●●●

## Certification

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2021 - Cisco: PCAP - Programming Essentials in Python


2019 - Cisco: IT Essentials: PC Hardware and Software

2019 - Cisco: Introduction to Cybersecurity

## Social networks

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 LinkedIn  
[denys-datskov](#)

 GitHub  
[sh3ifu](#)

 My Blog  
<https://sh3ifu.github.io/myBlog/>