

Oliver Francis

Blockchain Developer

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<https://github.com/olfrank> | <https://olfrank.github.io/myWebsiteV2/>

PERSONAL STATEMENT

BSc graduate and entrepreneurially minded blockchain developer with a logical and pragmatic approach to solving problems. A self-starter with a well-rounded and developed understanding of **decentralised finance (DeFi)** and its ecosystem, **smart contract programming** and **smart contract security**. Proficient in developing user focused and secure **Web3 decentralised applications (DApps)** using modern web development techniques and technologies.

SKILLS:

- **Languages:** Solidity, JavaScript, TypeScript, HTML, CSS
- **Frameworks:** Hardhat, Truffle, OpenZeppelin
- **Libraries:** React, web3.js, ethers.js, jQuery
- **Tools:** Ganache, GitHub, Remix IDE, VS Code

PROJECTS

zkProperties – Decentralised Property Listing Application (Capstone) *(February 2022)*

- Implements zkSNARKs (ZoKrates) when minting an NFT to represent and verify a user's title to a property.
- Contract deployed to Rinkeby, and assets can be purchased on OpenSea (testnet).
- (Solidity, TypeScript, ethers.js, Hardhat). https://github.com/olfrank/CapstoneV2_Blockchain/tree/main/my-app

FlightSurety – Flight Insurance Application *(January 2022 – February 2022)*

- Express.js server to simulate the communication of oracle data for flight statuses to the smart contract.
- Upgradable and pausable smart contract with multiparty consensus in place for decentralised decision making.
- (Solidity, JavaScript, HTML, CSS, web3.js, Node.js, Truffle). <https://github.com/olfrank/FlightSuretyDApp>

Authentic Wines – Supply Chain Tracking Application (Deployed to Rinkeby) *(December 2021 – January 2022)*

- Architected the smart contract and application logic pre-development using UML.
- Access control design in smart contract for different actors in the supply chain.
- (Solidity, JavaScript, HTML, CSS, web3.js, Truffle). <https://github.com/olfrank/WineSupplyChainDApp>

EDUCATION

University of Reading: Bachelor of Science in Geography (Human and Physical) (2016-2019) - **2.1**

CERTIFICATES & COURSES

Udacity *(November 2021 – February 2022)*

- Blockchain Developer Nanodegree Program

Moralis Blockchain Academy *(January 2021 – June 2021)*

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|-----------------------------------|---|
| - Cryptography and Privacy Coins | - Ethereum Smart Contract Programming 101 & 201 |
| - Decentralised Finance 101 & 201 | - Smart Contract Security |
| - EOS Programming 101 & 201 | - React Web Development |
| - Ethereum DApp Programming | - Bitcoin Monetary Revolution |
| - C++ for Blockchain Developers | - JavaScript for Blockchain Developers |
| - Ethereum 101 | - Blockchain and Bitcoin 101 |

EXTRACURRICULAR & INTERESTS

- **Gold** and **Bronze** Duke of Edinburgh's Award.
- Rugby, Skiing (cross-country and downhill), Health & Fitness, Music, Reading, Photography.