

# Oliver Francis

## Blockchain Developer

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<https://github.com/olfrank>

<https://olfrank.github.io/my-website/>

### PERSONAL STATEMENT

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BSc graduate and enthusiastic blockchain developer with a creative, logical, and pragmatic approach to solving problems. A self-starter with a well-rounded and developed understanding of **decentralised finance** and its ecosystem, **smart contract programming** and **smart contract security**. A strong grounding in developing user-focused and secure decentralised blockchain applications using Solidity, JavaScript, Hardhat and Web3.js. Eager to be part of a blockchain community that cultivates individual and team success while helping blockchain fulfil its potential.

### TECHNICAL SKILLS:

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

### OTHER SKILLS:

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- Analytical and research skills
- Critical evaluation and attention to detail
- Problem solving
- Communication skills (presenting, essay/report writing, debating)
- Ability to work well in a team
- Creativity and design, as shown in my projects
- Personal attributes such as development of responsibility, coping well under pressure, conscientiousness

### PORTFOLIO

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- **Capstone Project- Decentralised Property Listing Application.**  
Through the implementation of zkSNARKs (using ZoKrates toolbox), users can mint tokens to represent their verified title to a property without the need to reveal sensitive information. Contract has been deployed to Rinkeby through Infura and assets can be purchased on OpenSea (testnet). (Solidity, TypeScript, ethers.js, Hardhat).  
[https://github.com/olfrank/CapstoneV2\\_Blockchain/tree/main/my-app](https://github.com/olfrank/CapstoneV2_Blockchain/tree/main/my-app)
- **FlightSurety - Flight Insurance Application**  
Insurance for flight delays and cancellations. Express.js server to simulate the communication and retrieval of oracle data for flight statuses. Engaging user-focused frontend hosted on Fleek (IPFS). Upgradable and pausable smart contract with a multiparty

consensus mechanism 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**

Decentralised application used to track wine through the different stages of its supply chain. Used UML to architect the application and smart contract logic for development. Access control feature in smart contract design for different actors on the supply chain. (Solidity, JavaScript, HTML, CSS, web3.js, Truffle).

<https://github.com/olfrank/WineSupplyChainDApp>

## **EDUCATION**

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

**Gordons School (2009-2016):** A levels - Geography (B), Biology (B), Sports Science (B)

## **CERTIFICATES & CURRENT COURSES**

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### **Udacity:**

- Blockchain Developer Nanodegree Program (*November 2021 – present*)

### **Moralis Blockchain Academy:**

- Cryptography and Privacy Coins (*June 2021*)
- Decentralised Finance 201 (*May 2021*)
- EOS Programming 201 (*May 2021*)
- EOS Programming 101 (*May 2021*)
- Ethereum DApp Programming (*April 2021*)
- Ethereum Smart Contract Programming 201 (*April 2021*)
- Ethereum Smart Contract Security (*April 2021*)
- Ethereum Smart Contract Programming 101 (*March 2021*)
- React Web Development 101 (*March 2021*)
- Bitcoin Standard (*Feb 2021*)
- C++ for Blockchain Developers (*Feb 2021*)
- Decentralised Finance 101 (*Feb 2021*)
- JavaScript for Blockchain Developers (*Feb 2021*)
- Ethereum 101 (*Jan 2021*)
- Blockchain and Bitcoin 101 (*Jan 2021*)

## **EXTRACURRICULAR & INTERESTS:**

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- Embarked on a five-month trip to South America in early 2020 (cut short due to COVID-19).
- Keen rugby player since primary school. Member of the Reading University Rugby Society throughout university and a regular 1<sup>st</sup> team player.
- **Gold** and **Bronze** Duke of Edinburgh's Award.
- Volunteered with the Children's Country Holiday Fund (CCHF) Charity 2017, organising and delivering activities for children from disadvantaged backgrounds.
- Combined Cadet Force (CCF) 2013-2016. Gained a Methods of Instruction qualification enabling me to supervise and teach fellow cadets.
- Rugby, Skiing (cross-country and downhill), Health & Fitness, Music, Reading, Photography