Oliver Francis
Blockchain Developer

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Github Profile | Portfolio Website | LinkedIn

PERSONAL STATEMENT

BSc graduate and entrepreneurially minded blockchain developer with a **problem-solving** focus towards developing full stack decentralised applications (**DApps**) on Ethereum. Proficient in developing **smart contracts** for different use cases which adhere to **security** standards against known attack vectors**.**

SKILLS

Languages:	Solidity, JavaScript (ES6) / Node.js, HTML5, CSS3
Frameworks:	Hardhat (TypeScript), Truffle, OpenZeppelin
Libraries:	React, ethers, web3, jQuery, Express
Tools:	Ganache, Infura, IPFS, Docker, Remix, Git

PROJECT EXPERIENCE (All Projects Deployed to Rinkeby)

zkProperties – Property Listing Application
- ERC721 and ERC165 standards are employed for NFT, and contract call security.
- Implements zkSNARKs (ZoKrates) during minting to represent and verify a buyer's title to a property.
- **Solidity, JavaScript, React**, **ethers, Hardhat w/TypeScript, Infura, Docker.** Code

FlightSurety – Flight Insurance Application
- Express.js server to simulate the communication of oracle data for flight status retrieval to the smart contract.
- Upgradable smart contract by method of separating data and application logic contracts through an interface.
- Pausable smart contracts with a multiparty consensus mechanism in place for decentralised decision making.
- **Solidity, JavaScript, HTML, CSS, web3, Node.js, Express, Truffle, IPFS, Infura**. Code

Authentic Wines – Supply Chain Tracking Application
- Architected the smart contract and application logic pre-development using UML.
- Access control feature in smart contracts for different actors involved in the supply chain.
- Actors can update and query supply chain information for transparency and data integrity.
- **Solidity, JavaScript, HTML, CSS, web3, Truffle, Infura, IPFS**. Code

EDUCATION

UNIVERSITY OF READING: BSc in Geography (Human and Physical) – 2:1 (US equivalent: 3.5 GPA)   *09/2016 – 06/2019*

POST – UNIVERSITY

- Travel - South America (Argentina, Chile, Bolivia, Peru); casual work (labouring);
  Covid lockdown; learning Spanish   07/2019 – 12/2020

PROFESSIONAL CERTIFICATES & COURSES

MORALIS: *(15 courses)*	Cryptography, DeFi Deep Dive, Smart Contract Security, etc.	*01/2021 – 06/2021*
UDACITY:	Blockchain Developer Nanodegree Program	*11/2021 – 02/2022*
UDEMY:	Algorithms and Data Structures Masterclass by Colt Steele	*03/2022 – 03/2022*
DUKE UNIVERSITY:	DeFi Primitives by Cam Harvey	*03/2022 – 03/2022*

EXTRACURRICULAR, INTERESTS & AWARDS

- **Gold** (Atlas Mountains, Morocco) and **Bronze** (Brecon Beacons, Wales) Duke of Edinburgh's Award.
- Volunteered for one month with Children's Country Holiday Fund (CCHF) Charity, organising and delivering activities for children from disadvantaged backgrounds.
- Rugby, Skiing (cross-country and downhill), Health & Fitness, Music, Reading, Photography.