Oliver Francis

Solidity Developer

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https://github.com/olfrank

PERSONAL STATEMENT

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**, **smart contract programming** and **smart contract security**. A strong grounding in developing user-focused and secure decentralised blockchain applications using Solidity, JavaScript, Truffle and Web3.js. Eager to be part of a blockchain community that cultivates individual success while helping blockchain fulfil its potential.

TECHNICAL SKILLS:

- **Languages:** Solidity, JavaScript, HTML, CSS
- **Frameworks:** Truffle, OpenZeppelin, Hardhat
- **Libraries:** React.js, Web3.js, jQuery
- **Tools:** Ganache, GitHub, Remix IDE, VS Code

OTHER SKILLS:

- 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

PROJECTS

- **Portfolio Website**- You can view my website here: https://olfrank.github.io/my-website/ (React.js)

- **Funky Felines (DApp)**- Clone of CryptoKitties. NFT Marketplace and game where you can buy, sell, collect, and breed unique cat NFT's. Each cat has a DNA string that is correlated to its colours and attributes. Breeding algorithm built on-chain which mixes both parent's DNA to render a new-born kitten DNA string. https://github.com/olfrank/Funky_Felines_DApp (JavaScript, Solidity, jQuery, Web3.js, Truffle)

- **DEX (DApp)-** Decentralised exchange with a built-in wallet and orderbook where users can trade custom assets via market or limit orders. Utilises OpenZeppelin and uses truffle test framework. https://github.com/olfrank/new_Dex_Dapp (JavaScript, Solidity, jQuery, Web3.js, Truffle).

- **Multi-signature Wallet** – The smart contract design is focused on reducing gas consumption while maintaining security. Users can create multiple wallet instances under the same account and deposit custom ERC-20 tokens. Currently developing the frontend. https://github.com/olfrank/MultiSig_Wallet (Solidity, Hardhat).

- **Rock Paper Scissors** – The smart contract was designed to be gas efficient and secure from known attack vectors. The game can be wagered in custom rock paper scissors ERC-20 token. Measurements are in place to avoid funds being stuck in the contract. https://github.com/olfrank/Rock_Paper_Scissors (Solidity, Hardhat).

EDUCATION

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

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:

- Planned and 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 2nd and 1st 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, Travelling, Photography