

Ayad Farhat

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WORK EXPERIENCE

Honours Student at CSIRO's Data61

February 2023 - July 2023 · 6 months [Sydney, Australia] [Blockchain, Research Services]

RESPONSIBILITIES

- Developed simulation of 3 different upgradable smart contract patterns: ERC-2535: Diamonds, Multi-Facet Proxy, ERC-1822: Universal Upgradeable Proxy Standard (UUPS), and Basic Data Segregation, and ran the simulation to extract results.
- Developed an innovative approach to upgrade registry contract by extending the existing Diamond Pattern.
- Wrote my thesis and presented it.

KEY ACCOMPLISHMENTS

- Received a distinction on my thesis.
- Currently finalising the last results in the process of being part of my first publication.

Research Intern at CSIRO's Data61

December 2022 - February 2023 · 3 months [Sydney, Australia] [Blockchain, Research Services]

RESPONSIBILITIES

- Analysed and studied Lorikeet ([lorikeet link](#)).
- Analysed and studied 6 different upgradable smart contract patterns: ERC-2535: Diamonds, Multi-Facet Proxy, ERC-1822: Universal Upgradeable Proxy Standard (UUPS), Transparent Proxy Pattern, Basic Data Segregation, Satellite data segregation, and Register Pattern.

KEY ACCOMPLISHMENTS

- Received an honours student offer to continue working on the research.

Academic Tutor at The University of Sydney

February 2023 - July 2023 · 6 months [Sydney, Australia] [Education, Higher Education]

RESPONSIBILITIES

- Prepared slides to explain lecture content and assignment. Facilitated clear and concise discussions to break down complex topics for students.

KEY ACCOMPLISHMENTS

- Successfully assisted a class of 34 first year students to form and complete their group assignment.

Software Engineer at Crypto Global United

February 2022 - December 2022 - 11 months [Sydney, Australia] [Blockchain, Blockchain Services]

RESPONSIBILITIES

- Built a full working website for an NFT project that includes a page to mutate and a page to mint your NFT, Using React, NodeJS.
- Developed the ERC721 modified smart contract using solidity and deployed and tested it using Hardhat in JavaScript.
- Built the RESTful APIs in NodeJS to get data from IPFS into the webpage and to connect wallets and authenticate users.
- Developed algorithm to distribute cards to players based on performance and wrote the scripts that send the Cards (NFTs) in python.

KEY ACCOMPLISHMENTS

- Completed and Delivered NFT project.
- Improved card Management cost and time by at least 5000\$ per month from, by automating part of the NFT management and NFT distribution.

Software Engineer Intern at FOO

December 2021 - February 2022 - 3 months [Remote] [Fintech, IT Services and IT Consulting]

RESPONSIBILITIES

- Built a crypto portfolio tracking web-app frontend using Angular.JS.
- Built RESTful APIs using NodeJS to get data from the blockchain into the portfolio tracker. In addition, stored the data using MongoDB so we can show graphical interface. Furthermore, I developed a wallet authentication model using web3modal library.

EDUCATION

Master of IT (Part-Time)

The University of Sydney, Australia

August 2023 - Current

Bachelor of Engineering (Honors) in Software Engineering

The University of Sydney, Australia

August 2019 – July 2023

SKILLS

- JavaScript, TypeScript

- Java, SpringBoot
- NextJS, React, NodeJS
- Python, Django
- C/C++
- REST API
- SQL, MongoDB
- CI/CD, Agile Development, Git

Languages

English, French and Arabic.

Referees:

- Available upon request.