Ayad Farhat

ayad.farhat2001@gmail.com   (+61) 0401077009   IPFS: ayadfarhat.eth or ayadfarhat.com

WORK EXPERIENCE

Software Engineer at Bluewater Control

December 2023 – December 2024 [Sydney, Australia] [C#, .Net, React, Typescript]

RESPONSIBILITIES

- **Developed whole pages and reusable React components, managing state, and implementing forms and controls for responsive and performant user interfaces.**

- **Developed multiple tickets encompassing end-to-end responsibilities, .NET and C# implementation with MVC architecture, database interactions, API development, and integration between microservices, ensuring comprehensive solutions for diverse project requirements.**

Smart Contract Developer at Infinex

October 2023 – November 2023 · 2 months [Sydney, Australia] [Blockchain, Smart Contract]

RESPONSIBILITIES

- **Developed Pool Rebalancer between L1 and L2 deposit and withdrawals pools so that the trading system can always handle incoming deposit and withdrawals flows across several chains using solidity.**

- **Developed the Patroon pool system, which is the investment pool where patrons receive NFT as a receipt to their investment and as a token that can be used with voting powers with different roles.**

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.**

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.**

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.**

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.**

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.**

Honors and Awards

ETHGlobal Sydney Hackathon Winner

- **In a team of 4, developed Roman Kyoto a Multi-Asset Shielded Pool.**
- **Link: https://ethglobal.com/showcase/roman-kyoto-s3uio**

Relevant Projects

Marginex

- **Arbitrage Trading bot between different Liquidity pools of Decentralized exchanges using flash swaps.**
- **Python, Solidity**

EDUCATION

Bachelor of Engineering (Honors) in Software Engineering   **August 2019 – July 2023**
The University of Sydney, Australia

SKILLS

- JavaScript, TypeScript
- .NET, C#
- Solidity
- NextJS, React, NodeJS
- Python, C/C+, Java
- SQL, MongoDB
- CI/CD, Agile Development, Git

Languages
English, French and Arabic.

Referees:

- Available upon request.