Nicholas Makdessi

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[GitHub](#) • [Email](#) • [LinkedIn Profile](#) • [Website](#)

Career Objective

As a junior Blockchain developer, I have a keen interest in this field and its extension into applications in financial technology, more specifically financial analysis, Real World Assets (RWA), and institutional investment.

I am in my final year studying a Bachelor of Computer Science at the University of Wollongong and have started my work towards the Chartered Financial Analyst (CFA) charterholder accreditation to further my education and direction into financial technology.

I am seeking entry-level positions in blockchain and Web3 development, as well as in business analysis, where I can apply my skills and continue to learn and improve in all areas.

Technical Skills

- Solidity (Smart Contract Development)
- JavaScript
- HTML
- CSS
- Redux
- Hardhat
- React

Technical Projects

Crypto Orderbook exchange [GitHub](#)

Given my interest in institutional investment, I wanted to build a full stack cryptocurrency exchange to buy and sell tokens. From this project, I furthered my understanding of money interaction and basic data visualisation as you would find in any exchange, as well as how to build functioning components for token interaction. I enjoyed building this project as it showed me the general principles of any type of exchange that people use daily.

- Developed smart contracts as well as tests for the tokens and exchange using solidity.
- Using Hardhat to generate wallet addresses to run tests for transactions and exchange functionality.
- Use React & Redux to code the front end and for state management of blockchain data.
- Used certain data visualisation libraries to chart daily price movement.
- Wallet connect with MetaMask to communicate with the exchange through a local blockchain.

DEX Aggregator for AMM [GitHub](#) | [Video](#)

Further to understanding the different types of decentralised exchanges, the aim of this project was to demonstrate the behaviour of slippage and price impact when swapping token pairs within a liquidity pool. Both AMMs were deployed to build an exchange rate aggregator that calculates the best price to swap a selected token pair across the two exchanges. This project touched more on the mathematical modelling used to manage liquidity pools, making it fair for all users who trade on the platform.

- Used hardhat to develop and test smart contracts for tokens and the exchange.
- Using React for the front end and Redux for state management to store exchange rate prices.
- Deployed two Automated Market Makers (AMMs) to simulate two separate exchanges with differences in prices, allowing the aggregator to
- Wallet connects with MetaMask to communicate with the exchange through a local blockchain.

Experience

Blockchain Development
July 2023 – present
- Smart contract testing and development for Web3.
- Experience with NFTs, DAOs, Crowdsales, Decentralised Exchanges and other Dapps.
- I have built decentralised applications using React, Redux state, Solidity, JavaScript, HTML/CSS.
- Read/Write information to and from the Ethereum Blockchain
- All development was completed using the Hardhat SDK

Other Experience

Property Manager / Host - Air BNB
January 2022 – Present

I clean and take care of a registered Air BNB property. I am in constant communication with the owner and guests, coordinating general house maintenance and completing any required handywork. I tend to any client requests including issues that need immediate addressing as well as catering to any special requests. Customers are pleased with the level of communication and response with a satisfaction and rating of 4.89 on the site listing.

Wholesale/ Retail - Cronulla Gourmet Grocer
January 2021 – January 2022

I managed wholesale operations which included, receiving orders and distribution of goods.

Education

Bachelor of Computer Science
University of Wollongong   2021 – Present (expected graduation December 2024)

Blockchain Developer Mentorship, Blockchain Bootcamp 2.0, JavaScript Bootcamp
Dapp University 2023-2024

Skills

- Stakeholder Communication
- Agile Development & Scrum
- Management & Organisational Skills
- Punctuality

- Cross functional teams
- Project handover & Presentation
- Thoroughness
- Problem Solving

Extra-Curricular

Boxing / Martial Arts
2021 – Present

For 3 years I have fallen in love with the discipline required to train in these arts. It has taught me the importance of perseverance and persistence when pursuing goals. I enjoy challenging myself by voluntarily returning to this environment, which places me outside of my comfort zone. In addition to the obvious physical benefit, it has directly translated into my mental focus, giving me the mental strength to deal with real-world situations outside the boxing ring.

Volunteer Work

After School tutoring and engagement - *West Wollongong Public School 2018-2019*
Tutoring children with homework and helping them develop their confidence in communication and social interaction.

References

Professional Referees:

- Paul Saad (Owner) Cronulla Gourmet Grocer
- Jimmy Kandilas (Owner) Rubens Slice Shop Pizza

Personal Referees:

- Adam Holcroft (General Manager) QPS Benchmarking
- Dr. John Saad (Ambience Dental)
- Hassan Halil (Financial Software Developer)
- Dominic Lavalle (Owner / Coach) Reflex Martial Arts Centre

* Reference contacts can be supplied on request.