Alex Hu

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Education

The University of Adelaide

Bachelor of Science in Computer Science Advanced

Expected Graduation: May 2023

Work Experience

• Full Stack Software Engineer

PAC Digital

Nov 2021 – Feb 2022

Built out a NodeJs microservices designed to handle interactions between the main UNIDO app, and the Ripple blockchain. Allowing users to transfer between Ripple accounts.

- Developed familiarity using industry technologies like Docker and WSL.
- o Built and deployed code in a TDD environment with Unit and E2E test with Jest.
- o Improved transaction speed by 98% through a local cache storing transaction fee
- o Created a service to automatically update token balances for Binance wallets.

• Software Engineer

Trust Provenance

Jul 2021 - Oct 2021

Enables users to store documents as encrypted hashes onto the HaderaBlockchain. These hashed documents can then be used to check if tamper has occurred and locate the tampering points.

- Implemented a Merkle Hash Tree to reduce the size of previous hashes by 99%
- Lead, designed and prototyped the architecture of the entire project, by building a MVP frontend, connecting it to a REST API which communicates to a MongoDB cluster.
- Worked in a highly agile environment and learnt to use tooling technologies like JIRA and Confluence.

Personal Projects

Omada

February 2022 - February 2022

- o Built in 48 hours in a hackathon as a tool for automating employee onboarding processes.
- o Gained experience being a Project manager by assigning JIRA tickets, maintaining the master branch, providing code reviews and designing the application's architecture.
- o Built the server router and the connecting components of all the different services.

• Front Running Bot - NodeJs

December 2020 - Jan 2021

- Created a trading bot to spy on the UniswapV2 router for incoming transactions, algorithmically determining the profitability of the transaction.
- o Implemented a Trie to efficiently search for viable tokens to frontrun.
- o Used MongoDb as a caching system to increase processing speed.

• Personal Website - Angular

February- 2021 - March 2021

- o Used Angular to build a dynamic personal website, with animated SVG and interactive effects.
- o Deployed the static website onto the internet through firebase.

Community Engagement

•	Adelaide University Competitive Programming Club (Member/Web Developer)	2021-Current
•	Adelaide University VolleyBall Club	2018-Current
•	Cancer Council Youth Ambassador	2016

Activities

• ICPC (South Pacific)	2021
 ANZAC 	2021
 Advent Of Code 	2021
• UniHack 2021	2021

Languages and Frameworks