

# CHIA YONG KANG

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## WORK EXPERIENCES

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### Web3 Open Sourced Contributor

- [veDao](#) and [CitadelDao](#) - Engineering contributor for Smart Contract testing in Foundry and Hardhat
- [Velodrome](#) - Core team that architected and developed the #1 low slippage, low fees liquidity marketplace on Optimism

### [Spartan Labs](#) | Blockchain Engineer

May 22 - Present

- Spartan Labs is a venture studio backed by the Spartan Group which is a leading web3 VC
- Produced many high quality research engineering articles that focuses on incentive mechanisms, Zero knowledge proofs and SoulBound token.
- Spearheaded the development of an NFT launchpad on the flow blockchain ([Puddle](#)) and currently working on a Defi protocol.

### [Nethermind](#) | Blockchain Researcher (Contract)

Aug 22 - Oct 22

- Nethermind is the company responsible for producing one of the most relied on ethereum client with top tier engineering teams.
- Deployed and maintained on onchain security detection bot which scans and prevents different security exploit scenario.
- Secured hundred of million of dollars by maintained and adjusted the risk threshold for different bots for the top decentralized applications like Aave, Curve Finance and DyDx.

### Xfers (YC 16) | Software Engineer Intern (Stablecoins Team)

May 22 - Oct 22

- Xfers is Singapore's leading crypto payments solution that integrates with blockchain stable coins. Regulated by MAS.
- Refactored monolithic core repository to microservice architecture, increasing build time by 80%

### [Treehouse Finance](#) | Software Engineer Intern

Aug 21 - May 22

- Treehouse Finance is a fast-growing decentralized finance startup backed by reputable investors like Binance and Bybit
- An early engineer that led the dev-ops team to architect a testing and CI/CD pipeline to improve testing coverage from 0 to 80%
- Designed and built several internal tools such as competitor scrapper, failure monitoring REST API in Golang
- Architected and built a post-trade reconciliation software that automates blockchain data analysis and collection
- Utilized: Golang, Python, Solidity

### [Matchin](#) | Tech Co-Founder | Machine Learning & Backend

Sep 20 – Jan 22

- Matchin is a digital mentoring platform backed by SMU Incubator and Enspire.VC with 500 active users at its peak
- Led the data science team of 3 in building a personalized recommendation system to improve user engagement

### Rakuten Viki | Software Engineer Intern

May 21 - Sept 01

- Redesigned and modularized the analytics logging module using Kotlin Multiplatform, reducing codebase size by 40%
- Deployed the submodule to production, smoothly migrated deployment pipelines serving millions of users

### DSO National Laboratories | Software Engineer Intern

Feb 20 - May 20

- Established novel techniques in protocol reverse engineering which led to the publication of [research paper in IEEE Series](#)
- Utilized: Python, Tensorflow, Genetic Algorithms, Natural Language Processing

## PROJECTS

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### [Cross Exchange Arbitrage Bot \(Optiver Hackathon\)](#)

- Implemented delta-neutral market-making bot that trades on the illiquid market and hedges on the liquid market.

### [Decentralized Yield Aggregator](#) | [Demo](#)

- Dapp backed by Chain link labs allows users to dollar-cost yield farm in blue-chip tokens in decentralized finance protocol.

### [Order Book](#)

- Implemented an order book matching engine with different types of orders (limit, iceberg, market, IOC)

## ACHIEVEMENTS & CONTRIBUTIONS

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- Won 10 hackathons, coming in 1st place or runner up in 8 of them
- Web3 Hackathons won include: Crypto.com Hackathon (1st place), Avax Hackathon (2nd place)

## EDUCATION

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### Singapore University of Technology and Design (SUTD)

- Bachelor of Computer Science and Design (Honours) with a focus on Artificial Intelligence and Algorithms
- Awarded the [Science Technology Entrepreneurship Program \(STEP\)](#) Masters Scholarship for the top 5% of the student

## TECHNICAL SKILLS

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- **Languages:** Python, Java, Javascript, SQL, HTML, Kotlin, Golang, C++, PHP, Solidity, Golang, Rust, Ruby
- **Libraries, Framework, and Tools:** ReactJS, Node.js, MongoDB, Linux, Git, GCP, AWS, Hardhat