

CHIA YONG KANG

+65 98774639 • chiayongkang@hotmail.com • github.com/ExtremelySunnyYK • [Linkedin](#) • [Personal Website](#)

EDUCATION

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 \(STEP\)](#) Scholarship for the top 5% of the students.

WORK EXPERIENCES

Xfers | Software Engineer Intern (Stablecoins Team)

May 22 - Present

- Building XSGD, the world's largest non-usd-backed stable coin. Refactored payments and middleware system, connecting blockchain (Ethereum & Zilliqa) to the backend logic.

[Treehouse Finance](#) | Blockchain Engineering 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
- 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 for students powered by AI and backed by SMU Incubator and Enspire.VC
- Led the data science team of 3 in building a personalized recommendation system to improve user engagement
- Designed and implemented a web app(React) and backend server (Django, Flask) and deployed to Google Cloud

Rakuten Viki | Software Engineering 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
- Redesigned relational database to improve query speed with SQLDelight

DSO National Laboratories | AI Research Intern

Feb 20 - May 20

- Led and designed a machine learning project that reduced human efforts in network security by 40%
- Established novel techniques in protocol reverse engineering using unsupervised methods which led to the publication of a [research paper in the IEEE Symposium Series](#).
- Utilized: Python, Tensorflow, Genetic Algorithms, Natural Language Processing

Freelance Software Developer

Sep 18 – Sept 20

- Developed an augmented reality android app for construction which reduced time spent on-site for civil engineers by 15%

TECHNICAL SKILLS

- **Languages:** Python, Java, Javascript, SQL, HTML, Kotlin, Golang, C++, PHP, Solidity, Golang, Rust, Ruby
- **Libraries, Framework, and Tools:** Flask, Rails, Android, ReactJS, Node.js, MongoDB, Linux, Agile, Git, Google Cloud

FEATURED PROJECTS

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

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

Web3 Projects

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

- Dapp allows users to dollar-cost yield farm in blue-chip tokens in decentralized finance protocol. Deployed on testnet
- Utilized: React, Solidity, Javascript

[Order Book](#)

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

[Token Vendor Swap](#)

- Implemented a simple frontend and smart contract swap mechanism similar to Uniswap V1 Variant. (working on a Dex)

[Solana NFT Drop](#)

- A simple website to allow users to mint my NFTs from Solana

ACHIEVEMENTS & CONTRIBUTIONS

- Won 6 hackathons, coming in 1st place or runner up in 5 of them
- Hackathons won include: Hack & Roll (1st place) 2021/2022, Hack Junction(1st Place), Ninjavan Hackathon, LifeHack 2021/2022

OPEN SOURCE WEB3 CONTRIBUTIONS

- [veDao](#), [CitadelDao](#), OpenHausDao - Engineering contributor for Smart Contract and documentation
- Freelance Smart Contract Developer for an [AMM Fork](#) on Optimism