Hello, I'm Hai

recent NUS computer science graduate,
current software engineer with an inclination towards trading

Nguyen Chi Hai
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EDUCATION

National University of Singapore, *Computer Science*

AUGUST 2018 - MAY 2022

CAP: 4.8/5.0 - Bachelor of Computing, recipient of ASEAN scholarship, specialized in Algorithms and Artificial Intelligence.

EXPERIENCE

AlphaLab Capital, *Quantitative Software Engineer*

AUGUST 2022 - PRESENT

Played a key role in the successful implementation of the Execution Service that trades on various crypto exchanges, enabling the company to support new MFT strategies and daily trading operations.

Spearheaded deep dives and research into trading execution behavior and implemented features to lower price impact and increase fill ratios.

Investigated and diagnosed problems with HFT strategies directly leading to PnL impact.

Developed and maintained crucial trading operations related services and automations, streamlining daily operations and optimizing performance.

AlphaLab Capital, Software Engineer Intern

AUGUST 2021 - JAN 2022

Facilitated the integration of new exchanges into the existing high-frequency trading architecture, increasing profitability of current trading strategies.

Designed and built workflows to validate transactions on various blockchains.

Shopee, *Payment Backend Engineer Intern*

MAY 2021 - JULY 2021

Collaborated on the database sharding project to optimize performance and support high transaction volumes during campaign season.

National University of Singapore, *Teaching Assistant*

AUGUST 2019 - MAY 2021

Led tutorials and labs on key concepts in Design and Analysis of Algorithms, Data Structures & Algorithms, and Programming Methodology.

Ninja Van, *Software Engineer Intern*

MAY 2020 - AUGUST 2020

Supported the transition from synchronous calls to event-driven communication between backend microservices.

SKILLS

Languages: Python, C#, SQL, C++, Golang, Rust, Java, Swift, C

Tools: Unix, Git, Jupyter, BigQuery, AWS, Docker, React

PROJECTS

helloimhai.github.io

Four Five Foe

Multiplayer online game using web socket connection

Ask Hai Anything

React + Firebase full stack website to ask me anything

Peggle Clone

IOS arcade game with in-house physics and game engines.

SweeChat

End-to-end encrypted IOS messaging app that caters to educational institutions.