

Jikun Zhang

zhangjikun907475@gmail.com
Github:// caando | LinkedIn:// zhang-jikun

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Computing
Computer Science (with Honours)
Aug 2022 - Jun 2025 (Expected)

SKILLS

Low-Latency Programming

C • C++ • CMake/Make • Boost • ASIO • Beast

Web Development

HTML • CSS • JavaScript • ExpressJS • ReactJS
• Python • Flask

Database

SQL • MySQL • PostgreSQL • SQLite

Competitive Programming

Algorithms • Data Structures

Miscellaneous Programming

Tensorflow • Aeron • Apache Parquet • Unity • \LaTeX

AWARDS & ACHIEVEMENTS

2023	ICPC 2023 Online Spring	15 th
	Challenge powered by Huawei	
	Ready Trader Go	Finalist
	Google Farewell Round C	15 th
2022	Codelt Suisse Singapore Team	2 nd
	Category	
	Correlation One Terminal Summer	1 st
	Invitational Competition	
	Shopee Code League	Finalist
	Quora Programming Challenge	125 th
	Google Code Jam Round 1/2	Top 5%
	Meta Hacker Cup Round 1/2/3	319 th /27,604+
	Google Kickstart Round A	84 th /10,000+
	Round D	63 rd /5,000+
	Round F	16 th /5,000+
2021	Credit Suisse Global Coding	3 rd in Southeast Asia
	Challenge	
	Facebook Hacker Cup Round 1/2	Top 5%
	Google Kickstart Round E	118 th /5,000+
2019	National Olympiad in Informatics	Silver Medalist
	NUS Statistics Competition, Junior	1 st
	College Essay Category	
	Computing@SMU Award	Award Recipient
	Singapore Mathematical Olympiad	Honourable Mention
	Open Category	

EXPERIENCE

OPEN GOVERNMENT PRODUCTS

Software Engineering Intern
May 2023 – Jul 2023

ATOM ASSET EXCHANGE SINGAPORE

Software Engineering Intern
Jan 2022 – Jul 2022

- Developed a native gateway client with Boost.ASIO that sends low latency TCP messages of execution instructions to London Stock Exchange Group's matching engine service.
- Developed a market data collection service with Boost.Beast that collects market data of various cryptocurrency exchanges via websockets and stores it in Apache Parquet format.
- Set up integration tests using GoogleTest framework between risk management system, native gateway client and matching engine to ensure expected behaviour with a given configuration.
- Contributed to development and testing of a market maker to provide liquidity on the exchange, achieving the goal of reducing bid-ask spread of most traded assets to theoretical minimum of 1 tick.
- Researched and tested the performance of Aeron for messaging between multiple distributed system components within the exchange.

SOCIETY OF STUDENT AFFAIRS (SGEXAMS)

Full Stack Web Developer & Team Lead (Volunteer)
Jan 2020 – Current

- Lead a team of volunteering student developers in development and delivery of software-related projects.
- The team built <https://exams.sg> website with ExpressJS server, ReactJS client and PostgreSQL database.
- Notes repository with more than 20,000 registered users sharing and uploading their notes.
- Platform for the organisation to publicise their programmes and initiatives.

PROJECTS

EXAM TIMETABLE GENERATOR

Sep 2019
Developed a web application with Python Flask which utilises genetic algorithm to assign examination invigilation duties for teachers, reducing the need for manual assignments.

CANTEEN FOOD PRE-ORDERING SYSTEM

2017
Developed a web application with Python Flask which allows students and staff members in River Valley High School to pre-order food from the canteen so as to cut down on queue time in during breaks.