Jikun Zhang

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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

2022

CodeIt Suisse Singapore Team Category		2nd
Correlation One Terminal Summer Invitational Competition		1st
Shopee Code League		Finalist
Quora Programming Challenge		125th
Codeforces		Master (2298 rating)
Google Code Jam	Round 1/2	Top 5%
Meta Hacker Cup	Round 1/2/3	319th/27,604+
Google Kickstart	Round A	84th/10,000+
	Round D	63rd/5,000+
	Round F	16th/5,000+

2021

Credit Suisse Global Coding Challenge		3rd in Southeast Asia
Facebook Hacker Cup	Round 1/2	Top 5 %
Google Kickstart	Round E	118th/5,000+

2019

National Olympiad in Informatics	Silver Medalist
NUS Statistics Competition, Junior College Essay Category	1st
Computing@SMU Award	Award Recipient
Singapore Mathematical Olympiad Open Category	Honourable Mention

EXPERIENCE

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.