

# 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

Codelt Suisse Singapore Team Category	2 <sup>nd</sup>
Correlation One Terminal Summer Invitational Competition	1 <sup>st</sup>
Shopee Code League	Finalist
Quora Programming Challenge	125 <sup>th</sup>
Codeforces	Master (2236 rating)
Google Code Jam	Round 1/2 Top 5%
Google Kickstart	Round A 84 <sup>th</sup> /10,000+
	Round B 163 <sup>rd</sup> /5,000+
	Round C 128 <sup>th</sup> /10,000+
	Round D 63 <sup>rd</sup> /5000+
	Round F 16 <sup>th</sup> /5000+

2021

Credit Suisse Global Coding Challenge	3 <sup>rd</sup> in Southeast Asia
Facebook Hacker Cup	Round 1/2 Top 5 %
Google Kickstart	Round D 224 <sup>th</sup> /10,000+
	Round E 118 <sup>th</sup> /5,000+
	Round H 152 <sup>nd</sup> /5,000+

2019

National Olympiad in Informatics	Silver Medalist
NUS Statistics Competition, Junior College Essay Category	1 <sup>st</sup>
Computing@SMU Award	Award Recipient
AstroChallenge	Best Project Award
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.