

Jikun Zhang

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Computing
Computer Science (with Honours)
Expected Aug 2022 - Jun 2026

RIVER VALLEY HIGH SCHOOL

GCE A-Level
Integrated Programme
Jan 2014 - Nov 2019
Distinction in H2 Computing, H2 Physics, H2 Mathematics and H3 Physics
Senior Infocomm Club - Vice-President
The Eco-Sustainability Leadership Academy
National Cadet Corps

COURSEWORK

UNDERGRADUATE

Year 1 Semester 1
CS2100 Computer Organisation
CS2030S Programming Methodology II
CS1231S Discrete Structures
MA2001 Linear Algebra I
MA2002 Calculus

SKILLS

Low-Latency Programming
C • C++ • CMake/Make • Boost • ASIO
Web Development
HTML • CSS • JavaScript • ExpressJS • ReactJS
• Python • Flask
Database
SQL • MySQL • PostgreSQL • SQLite
Miscellaneous Programming
Tensorflow • Aeron • Apache Parquet • \LaTeX

PROJECTS

EXAM TIMETABLE GENERATOR

Sep 2019
Developed a Windows application which utilises genetic algorithm to assign examination invigilation duties for teachers.

CANTEEN FOOD PRE-ORDERING SYSTEM

2017
Developed a web application 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.

EXPERIENCE

ATOM ASSET EXCHANGE SINGAPORE

Software Engineering Intern
Jan 2022 – Jul 2022
• Developed a native gateway client that sends low latency TCP messages of execution instructions to London Stock Exchange Group's matching engine service.
• Developed a market data collection service that collects market data of various cryptocurrency exchanges via websockets and stores it in Apache Parquet format.
• Contributed to creation and testing of a market maker to provide liquidity on the exchange.
• Researched Aeron for low latency and high throughput messaging between multiple distributed system components.

SOCIETY OF STUDENT AFFAIRS (SGEXAMS)

Full Stack Developer & Team Lead (Volunteer)
Jan 2020 – Current
• Built <https://exams.sg> website with ExpressJS api, 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.

AWARDS & ACHIEVEMENTS

2022

63 rd /5000+	Google Kickstart Round D
128 th /10,000+	Google Kickstart Round C
163 rd /5,000+	Google Kickstart Round B
84 th /10,000+	Google Kickstart Round A
1701 st /4,500	Google Code Jam Round 2
1375 th /10,000+	Google Code Jam Round 1A
Finalist	Shopee Code League
125 th	Quora Programming Challenge

2021

3 rd in Southeast Asia	Credit Suisse Global Coding Challenge
1262 nd /6,789	Facebook Hacker Cup Round 2
278 th /12,692	Facebook Hacker Cup Round 1
152 nd /5,000+	Google Kickstart Round H
118 th /5,000+	Google Kickstart Round E
224 th /10,000+	Google Kickstart Round D

2019

Silver Medalist 1 st	National Olympiad in Informatics
Computing@SMU	NUS Statistics Competition, Junior College Essay Category
Best Project Award Honourable Mention	SMU School of Computing and Information Systems
	AstroChallenge
	Singapore Mathematical Olympiad, Open Section