

Jikun Zhang

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Computing
Computer Science (with Honours)
Aug 2022 - TBD

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

CS2107 Introduction to Information Security
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

Competitive Programming

Algorithms • Data structures

Miscellaneous Programming

Tensorflow • Aeron • Apache Parquet • \LaTeX

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.

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 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.

AWARDS & ACHIEVEMENTS

2022

Google Kickstart

Round D

63rd/5000+

Round C

128th/10,000+

Round B

163rd/5,000+

Round A

84th/10,000+

Google Code Jam

Round 2

1701st/4,500

Round 1A

1375th/4,500

Shopee Code League

Finalist

Quora Programming Challenge

125th

Codeforces

Master (2236 peak rating)

2021

Credit Suisse Global Coding Challenge

3rd in Southeast Asia

Facebook Hacker Cup

Round 2

1262nd/6,789

Round 1

278th/12,692

Google Kickstart

Round H

152nd/5,000+

Round E

118th/5,000+

Round D

224th/10,000+

2019

National Olympiad in Informatics

Silver Medalist

NUS Statistics Competition, Junior College

1st

Essay Category

SMU School of Computing and Information

Computing@SMU

Systems

AstroChallenge

Best Project Award

Singapore Mathematical Olympiad Open

Honourable Mention