LIN SI JIE
Software Engineer

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Education and Qualifications

2017 - Present
National University of Singapore
Bachelor in Computing (Honours) | CAP: 4.96 / 5
I am a recipient of the NUS Merit Scholarship.

Experience and Notable Projects

2017 - Present
MrJudge | Developer

Mrjudge is an online judge developed for training competitive programming, used by over 1,500 trainers and students.
As one of the core developers, I developed the reliability monitoring component to automatically monitor, alert and failover in case of system failure.

2017 - Present
National University of Singapore | Teaching Assistant

I have gained experience as a Teaching Assistant for the following courses:
CS2040: Data Structure and Algorithms (4 iterations)
CS2030: Programming Methodology II (1 iteration)
CS1010: Programming Methodology I (1 iteration)
I was placed on the Honour List of Student Tutors for my teaching excellence.

2016 - Present
TinkerTanker | Intern / Freelance Trainer

I developed the GetHacking iOS app, a digital maker project in collaboration with IMDA Singapore. The one-stop app contains tools to allow anyone to program a micro:bit from scratch. I also worked on some hardware projects, including a real -life Keep Talking and Nobody Explodes clone, built with Arduino and Raspberry Pi.
After the internship, I stayed on as a freelance trainer to teach programming.

Competencies

NodeJS

NodeJS is my go-to language for writing server-side software. With its vast npm collection, NodeJS allows me to quickly prototype software projects.

Among many projects, I implemented the Reliability Monitoring service from MrJudge, as well as a live code sharing tool that enables teachers to cast code in real time to students during a lecture.
Some snippets of my code can be found at
https://gist.github.com/sijie123/26be19e7aba1522b79cef42b75bfed89

Java

Having learnt the intricacies of the Java language through a module in NUS, CS2030: Programming Methodology II, I furthered my interest in the language by returning as a Teaching Assistant in the next semester.
Following which, I developed a Software Engineering project in Java. Coming in at ~10kLoC, the Software Engineering project allowed me to use various styles of programming (e.g. Functional / OOP) in Java to develop a robust and clean product.

I received A and A+ respectively for the two modules taken in Java.

Competitive Programming

To further my capabilities of writing accurate and efficient code, I have trained for and participated in various competitive programming competitions, such as the National Olympiad in Informatics and Inter-Collegiate Programming Competition.
Most recently, I was one of the teams that represented NUS in the Singapore ICPC Regionals. My team attained a first-to-solve prize in the competition.

To advance my knowledge in Algorithms, I have also challenged myself as a Teaching Assistant for CS2040: Data Structures and Algorithms.

I am also part of the organising team for the National Olympiad in Informatics 2019/20.