Jerry Shengjing Wang

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2022 first class computer science graduate with work experience and personal projects seeking a position as C++/Python software engineer.

Education:

- [2016-2017] University of Bristol, International Foundation Programme STEM (1st)
- [2017-2020] University of Bristol, BSc Computer Science (High 2:1)
- [2021-2022] University of Glasgow, MSc Computer Science (1st)

Awards:

- International Office Scholarships (University of Bristol)
- Barry Thomas Scholarship in Computer Science (University of Bristol)

Skills:

- **C++**, Python, Regex, SQL, ReactJS, Swift, AWS Amplify. **Linux, Vim**

Work Experience:

- **[2016-2017] Course Student Representative (University of Bristol)**
  Organising social events and improving the student experience and advise the programme from students' perspective. Gained valuable collaboration and leadership skills.
- **[2019-2019] ARM Software Engineer Intern (Cambridge HQ)**
  Working in an agile team on large scale projects involving designing scalable algorithms and legacy codebase migration, as well as analysing project requirements and feasibility. Languages used include Python 2.7 & 3.7, C++, JavaScript and Perl. Practiced enterprise-grade collaboration tools such as Apache SVN and Jira.

Relevant Projects:

- [2022] **Xcurse Terminal Graphics Library** [Code]
  C++ terminal graphics library mimicking ncurses. Handles keyboard and mouse I/O. Used as the basis of my other TUI applications. Designed with adequate OOP patterns to maximise modularity & scalability.
- [2022] **ASCII-Clock** [Code]
  C++ TUI clock and tomato timer app built upon Xcurse. It displays time and timer progress in cool 3D ASCII fonts with changeable background animations. It also supports key bindings for quick controls in the app.
- [2022] **Terminal Stonks** [Code]
  C++ TUI stock tracker built upon Xcurse. It fetches and parses data from Alpha Vantage. Handles HTTPS API requests with Boost.asio and shows the price and volume traded in real time.
- [2021] **Accelerating Cholesky Decomposition Using ARM SIMD Intrinsics (MSc Dissertation)** [Code]
  Implementing Cholesky Decomposition in C++11 using Arm Neon, Intel AVX intrinsics with OpenMP to evaluate the algorithm on SIMD platforms and compare the performance between architectures.

Other Projects:

- Custom Armv7 Linux Kernel, C++ OpenGL Ray-tracing Engine, Multi-threaded Game of Life, Combining Policy Gradient and Q-Learning in RL (BSc Dissertation), ReactJS Project Tracker Web App, iOS White Noise App, OpenCV Dartboard Detector. [View on github.io]

Languages:

- English (Bilingual fluency), Chinese (Bilingual fluency), Spanish (Limited working fluency)