Sophie Cao

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Education

May 2023 - Aug 2024 London, ON, CAN	**Fanshawe College of Applied Arts and Technology**	https://www.fanshawec.ca

Mobile Application Development (Co-op) *(Co-op term started in May 2024)*

GPA 4.14/4.2

Java · JavaScript · PWA · Android · iOS · UI/UX design · Firebase · Mobile Application Security

Aug 2017 - Jun 2021 Macao, MAC	**Macao Polytechnic University**	https://www.mpu.edu.mo

Bachelor of Science in Computing *(Enterprise Information System Specialization)*

Java · Project Management · Design Pattern · Operating System · Data Structure and Algorithm

Employment

May 2024 - Aug 2024 London, ON, CAN *(Hybrid-Remote)*	**Trinity United Church Community Centre**	https://trinityonhale.ca

Wizard's Apprentice - Web Developer (Co-op)

- Re-designed the website hosted on Wix, resulting in a more modern and user-friendly website.
- Developed a proposal and quests platform using Firebase, React and Mantine UI, Setup CI/CD pipeline for auto deployment.
- Developed a donation kiosk app using Kotlin, Hilt and Material UI, use Stripe SDK to handle card payment.

Feb 2022 - Mar 2023 Macao, MAC *(On-site)*	**HUB Information Service Co., Ltd.**	https://hubis.ltd

Senior Software Engineer

- Developed and promoted a new framework for the team based on Laravel, Inertia.js and Vue.js. The framework was adopted by the team for future development work
- Developed a hybrid migration solution using PHP scripting with embedded SQL statements to transfer data dating back to 2006 from a legacy system in dBase to MySQL.
- Developed a customizable website development stack using Nuxt.js, Tailwind CSS, and Strapi, resulting in faster development and greater flexibility then the previous approach.
- Containerize web-based system with Docker, including Dockerfile creation, multi-container management using Docker Compose, and CI/CD integration for automated deployments.

Jul 2021 - Feb 2022 Macao, MAC *(Remote)*	**HUB Information Service Co., Ltd.**	https://hubis.ltd

Software Engineer

- Setup Open Journal System and Moodle, troubleshooting and provide technical support for clients
- Developed a full-text search engine using Laravel, Elasticsearch, and Apache Tika, using Redis as queue for background processing. Indexed approximately 100GB of PDF documents.

Project Experience

Jan 2022 - Mar 2023	**Judoka - IT Solution for Judo Competitions** ↗ *In association with: HUB Information Service Co., Ltd.*

Full Stack Developer

- Led the rewrite from CodeIgniter to Laravel and Inertia.js, resulting in a more modern and efficient web application; Created an Electron.js application to display real-time ongoing and upcoming match rosters.
- Developed a CI/CD pipeline for continuous integration with Docker and Docker Compose, implemented a GitHub Action to automatically publish the latest image to the repository
- Provided technical support during several judo competitions to ensure the system ran smoothly and accurately. Collaborated with event staff and IT team members to troubleshoot issues, resulting in successful judo competitions.

Front-end · Back-end · PHP · JavaScript · Laravel · Inertia.js · Vue.js · Electron.js · Docker · AWS

May 2019 - Aug 2020	**Building Management System** *In association with: BBT Student Association in SCUT*
	Full Stack Developer

- Rebuilt the existing system from scratch, and use MySQL as a replacement for MS Access.
- Use Laravel and Vue.js for progressive web development, and provide an intuitive interface to users.
- Built a high performance fixed-header and virtual scrolling table to display large datasets.

Frontend · Backend · PHP · JavaScript · Laravel · Vue.js · MS Access

Publication

Oct 2023	**Model Optimization for Stock Market Prediction using Multiple Labelling Techniques**
	2022 IEEE 13th International Conference on Software Engineering and Service Science (ICSESS 2022)

Certificates

Sept 2017 - Nov 2017 Macao, MAC	French I: An extra-curriculum course provided by Alliance Française Macao

Volunteer Work

Feb 2024 - Apr 2024 London, ON, CAN	**London Food Bank** Volunteer (Sorting received donations)
Jan 2020 Kuala Lumper, MYS	**YMCA Kuala Lumper, Centro de Estudantes do Ensino Superior** Oversea volunteer training - outstanding volunteer motivation program
Oct 2018 - Jan 2021 Macao, MAC	**Centro de Estudantes do Ensino Superior** Volunteer (Publicity and Promotion Group)

Technical Strength

Programming Language	Expert in **PHP** and **JavaScript**, **HTML (HTML5)**, excellent in **TypeScript**, **Java**, **Swift** and **Kotlin**, familiar with **C++** and **Python**, have knowledge on **Ruby**
DevOps	Proficient in **Docker Container** deployment, familiar with **Linux (mostly Ubuntu)** and **GitHub Actions**, have knowledge on **Amazon AWS** and **Kubernetes**
Database	Proficient in **MySQL**, **SQLite**, Relational Database (RDBMS), familiar with **Elasticsearch**, **Redis** and **Firestore**, NoSQL
Framework	Expert in **Laravel** and **Vue.js**, also in **Inertia.js**, **Nuxt.js**, and, **Tailwind CSS**, excellent in **CodeIgniter**, **React** and **React Native**, familiar with **Spring Boot**, **Django** and **Next.js**
Tools	Expert in **Composer**, **Yarn**, excellent in **Git**, have previous experience on **Jira**, **Confluence** and **Figma**, familiar with **Gradle**
Stack	Have experience in **Web application** development, **API** development, **Android native** application development, **iOS native** application development and **React Native** application development
Other	Have basic understanding on **machine learning**, know the basis of **data visualization**, have experience on **Open Journal System (OJS)**, **Moodle**, **Joomla** and **WordPress**.
Team Collaboration	Problem Solving, Technical Support, Communication, Collaboration, Agile, Scrum