

# Wenxi (Edward) Zheng

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## Education

- **University of Sydney** **Camperdown, NSW**  
*Bachelor of Advanced Computing(Majoed in Information System and Software Development)* August 2020 – June 2024
  - Achieved **Honors Class One**.
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## Work Experience

### QuickSite Guru – Frontend Developer

- Contributed to a cutting-edge launch project aimed at streamlining the website creation process through AI-powered chat functionality. This project is built with **TypeScript** and **React.js** as frontend.
- Worked and Contributed on the UI-Guidelines, which implemented the component of the website, and would be used in different repository for different projects.
- Implemented the buy domain page, which allowed user to check the availability and price of a domain name with related keywords, via AWS Route 53.
- Participated in agile development, learnt the real-world team collaboration and github workflow.

### Strong Compute – Lead Machine Learning Engineer

- Strong Compute is a cloud-GPU provider for research and enterprise purpose. Strong Compute has its own distribute system to allow customers use multiple GPU node to train and test their AI models.
- Benchmarked the performance and usability for Ray, Lightning, SkyPilot, and Strong Compute private distributed framework, Mask R-CNN as benchmark model and COCO as dataset.
- Our Ray integrated distributed system can enhance the speed for training up to 36%, with 12 GPUs distributed on 2 Strong Compute node.
- Led and supported the team, assisting team members with literature reviews, troubleshooting, and developing solutions to technical challenges.

### Bluerate Money Exchange – Client Service and Transaction Analyst

- I take care of day-to-day transactions, including record the transactions into a spreadsheet, mark the transactions that have risks. These day-to-day transaction spreadsheets will be further used for a dive-in anual report analysis.
  - I take care of the basic customer service, which mainly take in and process the transactions for customers, register the customer and help them to fill the form if need.
  - I take care of the customer background check, to make sure that the customers on our record is clean and safe.
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## Projects

### Suncycle website

- This project developed a website for solar panel board recycle with vue as frontend and **Springboot** as backend.
- Implemented the authentication logic with JWT for backend, customized method to fetch the users by email. Passwords will be encripted for storing.
- Implemented adding, reading and deleting operation to the **MySQL** cloud-hosted (GCP) database.
- Google Map API integrated to get the latitude and longitude of a specific installation, Jackon library used for JSON object transaction.
- Led the backend team to communicate with the frontend team, ensured frontend can use our **REST API** correctly.

## On Task Achiever (Andorid and iOS app)

- This project developed a mobile app which can be running on both **iOS** and **Android** platform with **Kotlin Multiplatform Framework**, and finally deloped to a real-world customer. I developed the original iOS UI with **SwiftUI**.
- Implemented the login, child home page, as well as add children function. I set up the Google and Apple authentication method with **Firebase**.
- Led the team with allocating tasks weekly and overcoming challenges, also participated the UI design. I solved the state management problem by implementing the global state, as well as the authentication bugs, where sometimes user will be logged in multiple times.

## Cafe App

- This project is a cafe web application deployed with AWS EC2, Auto Scaling Group, and Load Balancer to achieve high availability.
- The cloud architecture is well designed to ensure the security feature. EC2 instances would be only connectable to a basion host instance, to avoid any other connection.
- The auto scaling group and load balancer were used to handle large volum request. Multiple avaiility zones are enabled to prevent sudden accident.
- RDS was created by the cloudformation with yaml file, which made the architecture easy to reimplement.

## Money Exchange Desktop Application

- This project developed a desktop application for checking exchange rate with Java and JavaFX.
- Implemented the whole UI design with JavaFX and **MVP** architecture to isolate the model and view layer. The rate is displayed with real-time data through API call.
- Used a stage management system to solve the problem, that to avoid the map view and main app view generate different instances while reloading multiple times.
- Improved the user experience by adding **multi-thread** to avoid frozen screen. I used JavaFX concurrency class Task to handle the background API operation, so that the main UI thread will not be blocked while handling the API call.

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## Skills

**Programming Language and Framework:** Python, Nodejs, React, TypeScript, SwiftUI, Kotlin, Hibernate, REST API, Java spring, Flutter, .NET

**Data Engineering:** SQL, BI, Data ETL

**Teamwork:** Git, JIRA, kanban

**Web Client Development:** Javascript, React.js, HTML, CSS

**Infrasructure:** Cloud service providers including AWS, Docker, Microservice

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## Interests

Learning new data analysis skills as emerging technology may significantly improve efficiency, espeically AI-related skills, since AI can reduce the time for manual data analysis.