

# SilviaTan

Software Engineer

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## Education

### Master of Information Technology (with Excellence)

University of New South Wales

Feb 2023 – May 2024

Sydney, Australia

### Bachelor of Science (Honours) in Computer Science

University of New South Wales

Feb 2022 – Dec 2022

Sydney, Australia

## Work Experience

### Full Stack Software Engineer

TestFirst

Jun 2024 – Present

Singapore, Singapore (Remote)

- Built a web-based test automation editor and custom multi-lingual gherkin-based library with 10+ languages which allowed test executions to be done 14x faster.
- Enhanced test automation fluidity by implementing related modules across different web apps and native app, improving user experience within the TestFirst ecosystem (i.e., web browsers, macOS, and Windows).
- Implemented reliable and scalable APIs, enhancing developer's experience and efficiency throughout the software development process.
- Practiced MVVM architectural pattern to maintain logic, readability, and consistency of the codebase.

### Casual Academic Tutor

University of New South Wales

Feb 2024 – Present

Sydney, Australia

- Delivered tutorials and consultations to ensure students's understanding of the subject. Reached up to >90% student satisfaction rate.
- Designed and reviewed course curriculum to enhance assessment quality and consistency for over 1000 students.
- Courses: COMP6080 (Web Front-End Programming), COMP9321 (Data Services Engineering), COMP3511 (Human Computer Interaction), COMP4511 (User Interface Design Construction), COMP3900 (Computer Science Project).

### Full Stack Software Engineer Intern

TestFirst

Dec 2023 – May 2024

Singapore, Singapore (Remote)

- Developed responsive interfaces for test automation management, improving bulk test automation efficiency by 50%.
- Utilised state management to ensure data is stored and retrieved efficiently across different routes.
- Refactored the front-end web application code to improve responsiveness, speed, and memory usage by 20%.

## Projects

### Waiting Management System | Typescript, Next.js, Mantine, Django, Python, PostgreSQL

[github.com/ItsLame/CtrlAltDelEat](https://github.com/ItsLame/CtrlAltDelEat)

Feb 2024 – Apr 2024

- Developed a web application that allowed customers and different level of staffs to interact with menu and orders.
- Designed an interface that is responsive, accessible, and adheres to good UI/UX practices to improve technological and human inclusivity.

### Atrial Fibrillation Module | Typescript, Python, React Native, Redux, TensorFlow.js

[github.com/TCC-AF/ts-af](https://github.com/TCC-AF/ts-af) | [silviatan.com/silvia-tcc-af-thesis.pdf](https://silviatan.com/silvia-tcc-af-thesis.pdf)

Feb 2022 – Dec 2022

- Developed a module for a TeleClinical Care app to detect Atrial Fibrillation through continuous monitoring of ECG signals, improving alertness of critical information between patients and healthcare workers.
- Converted a custom deep learning Keras model that classifies sinus rhythms via processed ECG measurements to a TensorFlow.js graph model to enable machine learning capabilities in mobile devices without the overhead of serverless functions.

## Extra-Curricular Activities

### IT Director

UNSW Women in Technology

Feb 2024 – Nov 2024

- Managed, trained, mentored, and lead a team of 8 subcommittee members to develop and improve WIT's digital presence through various projects.
- Implemented logging system for WIT's EMP project to improve communication between mentees and mentors by 25%.
- Developed and maintained WIT's projects to ensure that they are up-to-date and functional.

## Skills

Typescript, Javascript, HTML/CSS, C#, Python, SQL, Shell, Next.js, React, Redux, Node.js, Tailwind, .NET, PostgreSQL, MongoDB, Express.js, React Native, Expo, PayloadCMS, Flask, Pandas, REST, ESLint, Unix/Linux, Git, Docker, Figma, Agile Development.