

Ong Suzanne

Penang, Malaysia | ongsuzanne9901@gmail.com
+6 012 413 8028 | <https://www.linkedin.com/in/suzanne-o-1b41451a4>
<https://suzanneongcodes.github.io/Portfolio>

EMPLOYMENT EXPERIENCES

Keysight | R & D Engineer II

Mar 2023 – PRESENT

- Directed feature development and bug fixing on 5 desktop apps, mainly on additional hardware support in [PathWave Advanced Power Application Suite](#)
- Collaborated on pre-compliance testing modules for the [PathWave BenchVue AC Source App](#), enabling engineers to validate power designs against regulatory standards more efficiently.
- Optimised hardware-software integration by assisting in the implementation of manual instrument connections and resolving complex customer-facing bugs across the entire module ecosystem via SCPI
- Championed team growth and visibility by mentoring 5 interns on technical best practices and representing the engineering team in high-level progress demonstrations to stakeholders.
- Enhanced software reliability and security compliance using automated monitoring tools (Black Duck, VMT, Polaris) to identify vulnerabilities and maintain high-quality code standards.
- Pioneered 3 Proof-of-Concepts involving chatbot-driven support and outlier detection for semiconductor lot estimation for AI-enhanced customer experiences.

RAA | Web Developer

Dec 2021 – Jan 2023

- Liaised with integration and UI teams for content improvisations
- Prototyped and presented Next.js with TypeScript application for clients to stakeholders
- Worked on deployment for 3 software projects to be compiled in quality assurance testing and user acceptance testing environments
- Co-developed and refactored an [insurance quote generation project](#) under AngularJS and C# with 98% acceptance criteria, 99.98% test coverage and improvised code readability

Learn Mate Tutoring | Part Time Tutor

May 2020 – Jan 2021

- Provided guidance, resources, and private lessons for students in Year 12 Accounting and Maths

EDUCATION BACKGROUND

University of Adelaide

Jan 2020 – Dec 2022

Bachelor of Computer Science (Advanced) | GPA 6.5/7

- Software Engineering Club Secretary
- Australian Computer Society & Orientation Week Volunteers
- Open-Source Collective Club Marketing Lead
- Microsoft Learn Student Ambassador
- Minute-Taker for Hen House Co-Op Project

Taylor's College

Jan 2019 – Dec 2019

Year 12 South Australian Certificate of Education | ATAR: 95.35

- Taylor's Model United Nations Club Delegate

PROJECTS

Ground Transversality Estimation | C++, Python

- Investigated computer vision techniques (semantic segmentation) to mitigate high compute budget in estimating ground transversality from off-road robots
- Documented results based on utilising techniques for Robotic Operating Systems (ROS) with other researchers

See Adelaide | React Native, Firebase, Expo

- Constructed a travel app that provides holiday destinations and event information to public for both Android and iOS environments
- Optimised mapping API within MVP that is developed from feedbacks by market analysis based on 150 students

Airbnb occupancy rate analysis | Python

- Implemented Python libraries (*seaborn*) for interactive visualisations & data evaluation using (*sklearn*)
- Refined web interface for data visualisations with *plotly* and *Dash* on desktop/mobile application

PROGRAMMING KNOWLEDGES / SKILLS

- Programming Languages: C#, TypeScript, JavaScript, Python, C++, MATLAB, R
- Software Frameworks: .NET, Angular, React, Vue, Next.js
- Database: MySQL, MongoDB, Firebase
- Microsoft Azure certifications: AI-900, AZ-900