Liew Zhao Wei

+65 8323 8425 zhaoweiliew@gmail.com https://zwliew.netlify.com

EDUCATION

Hwa Chong Institution (2013 - 2018)

Studied Computing, Mathematics, Physics, Economics, General Paper, and Project Work.

WORK EXPERIENCE

Intern at Tinkertanker (Jan 2019 - Mar 2019)

- Worked on redesigning the Get Hacking website with HTML, CSS, and Ruby on Rails
- Wrote UI tests and fixed bugs for the Get Hacking Android app, improving developer productivity
- Documented my learnings with a technical blog post on UI testing for Android

ACHIEVEMENTS & AWARDS

Distinguished Achievement Award

2018 National Chinese Mobile App Development by Students for Students Competition (Singapore Centre for Chinese Language)

- Built a Unity mobile game to aid and engage primary school students in learning Chinese
- Guided my team through the planning stages of the app
- Led 2 inexperienced programmers through the initial architecture design phase
- Taught team members project management tools like Git, Slack, and Trello
- Built the data/state management and character navigation systems

Special Award

SkillsFuture Singapore Hackathon 2018 (UP Singapore)

- Built an on-demand online real-time tutoring platform (Node.js, JS, HTML, CSS)
- Incentivises tutors with 'karma' or monetary gains
- Built the real-time messaging service for both the client and the server

2nd Place & Silver Award (pre-university)

Cyber Defenders Discovery Camp 2017 & 2018 (DSTA)

- Participated in a 2-day wargame contest, pitting my team against dozens of other teams
- Secured my team server with a firewall using nftables
- Discovered and exploited vulnerabilities in a server set up by the organisers
- Utilised various network penetration testing tools such as nmap, netstat, telnet, ssh, Gobuster, and Wireshark

Grand Prize

Google Code-in 2017 (Google)

- Contributed to open-source organisations like JBoss, Wikimedia, and MovingBlocks
- Wrote features and fixed bugs with Android, Node.js, and Python
- Documented projects with set-up instructions, and code architecture and API information
- Wrote a write-up and made a video for publicity

Merit Award

Singapore Science and Engineering Fair 2017 (A*STAR, MOE, Science Centre Singapore)

- Designed a model networking algorithm with ant colony optimisation and load balancing
- Built visualisation and benchmarking tools for monitoring network performance with Java Swing

PROJECTS

LineageOS/CyanogenMod - contributor to a third-party Android distribution

- Maintained ports for devices like the Xiaomi Redmi 3S and the Samsung Galaxy S4
- Worked on custom features like the touchscreen gesture management system
- Forward ported various features from older releases to newer releases

Into the Light - community involvement w/ Singapore Association for the Visually Handicapped

• Worked on a text-to-speech app for the visually handicapped, applying accessibility techniques

Optical Localisation of Robots - a team project for NUS Hack&Roll 2018

• Optically localised a sensor-less robot in a robotics play field using a camera with a bird's-eye view and a server that updates the robot of its position (Python, Arduino, HTML, JS, Node.js)

GovTech GeekOut Bootcamp 2018

• Building and programmed an autonomous robot car that navigates a race circuit with obstacles

SKILLS

HTML, CSS, JavaScript, Node.js, Android (Java, Kotlin), Arduino, Python, Ruby on Rails, C++