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| Ting Xian Loo  Edgefield Plains S820118 · +65 8101-2687 ·DOB: 16/04/1994  [chung\_heon@hotmail.com](mailto:chung_heon@hotmail.com) : <https://chungheon-public-projects.github.io/> |

# Professional PRofile

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| ASM Technology Singapore PTE LTD Technician (Contract-Based) December 2016 – June 2017  Hardware Installation **(Not software related)**  Perform wire bond sub-module assembly, set-up and calibration in meeting desired specification.  Conduct checking and audit on the machines. |

# Education

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| University of Wollongong July 2017 – December 2019  Bachelor of Computer Science (Digital Systems Security)  Final year project – Packet Sniffer Android App (Android/Java)  An Android App that allows users to gather the network information of the connected network. Functions such as Promiscuous Network Packet Sniffing, Host Discovery, View Network Packet Files (.PCAP). |
| Ngee Ann Polytechnic April 2011 – May 2014  Diploma in Electronics & Computer Engineering  Final year project – Voice Recognition in Kids E-Book (Visual Studios/C#)  Create an electronic book for kids to read, the program will recognize the kid’s voice and attempt to identify what the kid has read. (Using Window’s Voice Recognition) |

# Skills

# C++

# Java

# JavaScript

# ANDROID STUDIOS APP development

# HTML5, CSS5

# Projects

* Web Project: (Pathfinding Visualizer (Javascript)

Started the project to learn more about HTML, CSS, Javascript. The webpage runs pathfinding methods to search for the goal from a starting point. It show a path/shortest path to the goal, based on algorithm, if possible. It also allows users to generate a maze to surround the goal, or draw own walls/add weights on the map.

Link: <https://chungheon-public-projects.github.io/projects/pathfinder-vizualizer/pathfinder_vizualizer.html>

* Web Project: (Sudoku Puzzle Generation/Solver Visualizer (Javascript)

The webpage runs a bruteforce algorithm to solve the puzzle input by the user/randomly generated. I hope to incorporate algorithms that are clever into the project in my free time.

Link: <https://chungheon-public-projects.github.io/projects/Sudoku/sudoku.html>

* Android Project: (File Transfer App (Java/Android Studios Development/Encryption))

The project is an android app that allows users to join groups and transfer files to each other. It relies on Firebase Server and Android Studio APIs to operate. Uses can create a group, add other users, and share files onto Firebase. All private/public keys will be created and store in AndroidKeyStore. Each user’s public key is stored on Firebase. When uploading files, the file would be encrypted using the RSA key from the KeyStore. And when downloading, original user’s public key would be used to decrypt the encryption.