## Tony (Lih-Ren) Chang

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## **EDUCATION**

The University of Melbourne, Melbourne, Australia	Jul. 2018 - Jul. 2020
<ul> <li>Master of Information Technology (Computing), WAM: 76.86%</li> <li>Completed Coursework: Internet Technologies, Algorithms, Advanced Database Systems, Distributed Syste Management, AI Planning for Autonomy, Machine Learning, Mobile Computing Systems Programming, Ev</li> </ul>	
National Tsing Hua University (NTHU), Hsinchu, Taiwan	Sep. 2016 - Jun. 2017
<ul> <li>Extension education program, Department of Computer Science, GPA: 3.7/4.3</li> <li>Completed Coursework: Data Structures (A), Operating Systems (A-), Computer Architecture (A-), Discrete</li> </ul>	e Mathematics (A)
National Central University (NCU), Chung Li, Taiwan	Sep. 2008 - Jun. 2013
• Bachelor of Science in Chemical and Materials Engineering, <b>GPA: 3.3/4</b>	
SKILLS	
Web Development: JavaScript, HTML, CSS, React, Node.js, Express, Nginx, AWS Programming Skills: Java, Python, C++, MongoDB, MySQL, PostgreSQL, Git Version Control, Android, Agile M Languages: English (Fluent), Mandarin (Native), Japanese (Basic)	Aethodology, Apache Heron
SIDE PROJECTS	
<ul> <li>Job Application Tracker in MERN Stack and AWS</li> <li>Improved the efficiency of the job-seeking process by creating a single-page web application with a RESTfu progress of job applications by using MongoDB, Express, React, and Node.js (deployed on AWS)</li> </ul>	Oct. 2020 I API server to manage the
RESEARCH PROJECTS	
<ul> <li>Benchmarking Stream Processing Frameworks in Java</li> <li>Increased the overall performance of Dragon by 50% by comprehensively comparing the behavior between frameworks for serving real-time streaming needs: Apache Heron and Dragon (deployed on Nectar Research)</li> </ul>	o . o
SUBJECT PROJECTS	
<ul> <li>T-Rex Game Mobile App with Motion Sensing in Android and Java</li> <li>Developed a motion-controlled gaming App with a user-friendly interface and handled application data via I</li> </ul>	Oct. 2019 Firebase Realtime Database
<ul> <li>Pac-Man Game AI in Python</li> <li>Attained the top 15% ranking in the AI competition of our league by designing a Pac-Man game AI by integration.</li> </ul>	Oct. 2019 grating different techniques
<ul> <li>Automatic Fact Verification System (The FEVER challenge) in Python</li> <li>Achieved the top 20% ranking of the whole class by building an information retrieval system with a self-train utilizing AllenNLP and PyLucene</li> </ul>	May 2019 ned deep learning model by
<ul> <li>P2P File Sharing System in Java</li> <li>Developed a distributed system based on TCP/UDP protocol to achieve efficient file sharing and synchronic</li> </ul>	May 2019 zation among users
<ul> <li>Spelling Correction System in Python</li> <li>Corrected the misspelled words according to the word frequency model and several approaches (e.g., the Lee</li> </ul>	Sep. 2018 venshtein algorithm)
<ul> <li>Bicycle Sharing Management System in C++</li> <li>Implemented a system that allows the bike-sharing company to manage bike rental, payment, and returning</li> </ul>	Dec. 2016 between different sites
WORK EXPERIENCE	
<ul> <li>Private Tutor, Taipei, Taiwan</li> <li>Mathematics and Programming (junior-high-school level)</li> </ul>	Jul. 2014 - Jun. 2016
<ul> <li>Substitute Military Service, Veterans Affairs Council, Taiwan</li> <li>Government agencies, The Republic of China (Taiwan)</li> <li>Retrieved and processed numerous data of demobilized soldiers from the government database system for for vocational training, and medical aid)</li> </ul>	Jul. 2013 - Jun. 2014 urther usage (e.g., Long-term care,
HONORS & ACTIVITIES	
Eventlant Derformance of Substitute Civilian Servicement Award, Taiwan	2014

Excell	lent Performance of Substitute Civilian Serviceman Award, Taiwan	2014
•	Selected as one of 100 outstanding substitute civilian servicemen over 26000 candidates based on leadership and contribution	
Volun	teer Experience, Taiwan	2012
•	Designed and hosted various activities in educational camps held in schools lacking academic resources	