

ZHAI ZIRUN

+65 84128417 (phone) +44 7510741673 (Whatsapp) | zhaizirun1@gmail.com | website: zzirun.github.io | git: github.com/zzirun

EDUCATION

Imperial College London (Sep 2019 - Present) Bachelor of Engineering, Computing Second Year	<ul style="list-style-type: none">Projected to graduate with first-class honoursAttained overall A in first year, with an A in programming practicalModules taken include: Graphs & Algorithms, Intro to Computer Architecture, Reasoning about Programs, Intro to Databases, Programming (Haskell, Java, C)
Hwa Chong Institution (Jan 2017 - Dec 2018)	<ul style="list-style-type: none">Selected for Gifted and Talented Education Physics Program, a talent program for high achievers in Mathematics and Sciences with a class of 25 students selected from 2000 students

WORK EXPERIENCE

Singapore Management University Research Assistant (Aug 2020 - Oct 2020)	<ul style="list-style-type: none">Built a database of bugs in deep learning models, and stored it in Docker. The database can be used to apply deep learning to debug deep learning modelsTrained deep learning models using Tensorflow in Python and expedited the identification of bugs by creating a test suite
Clickerance Co-founder & Back-end Developer (Jan 2020 - ongoing)	<ul style="list-style-type: none">Developed concept and confirmed technical viability of a startup dedicated to making grocery shopping online according to dietary preferences more accessibleCreated the Minimum Viable Product, a Chrome extension, using SQL, Javascript, HTML and CSS, and is currently looking to raise a seed round
NEC Asia Pacific Support Engineer (Mar 2019 - Apr 2019)	<ul style="list-style-type: none">Conceptualized plans to mitigate technical faults in biometric security systems in government infrastructure, and presented them to a team of supervisorsReduced instances of error by 20% through analyzing patterns in error data and training on-site staff to target possibly faulty cases more accurately and precisely
Lee & Lee Advocates & Solicitors Intern (Dec 2017)	<ul style="list-style-type: none">Extracted information from criminal cases and presented it to supervisors to expedite work for litigation departmentAttended and analyzed court hearings to develop in-depth knowledge about courtroom proceedings and effective legal communication, learning first-hand from lawyers

PROJECTS

C Project (2020)	<ul style="list-style-type: none">Implemented an ARM emulator, assembler and assembly program in CExtended the project's functionality by using it to create a digital payment system that takes orders and generates receipts automatically, receiving an overall grade of A*
Nanyang Research Program (2017 - 2018)	<ul style="list-style-type: none">Led a team to apply deep learning to tactile perception through Natural Language Processing using PythonConstructed a 1000-entry database by writing automatic data collection programs in PythonResearch paper was published at the 19th International Conference on Computational Linguistics and Intelligent Text ProcessingReceived Gold award from Nanyang Research Program, a research outreach program conducted by Nanyang Technological University

LEADERSHIP AND VOLUNTEER EXPERIENCE

International Science Youth Forum Organizing Committee Member (2018)	<ul style="list-style-type: none">Hosted Nobel laureates and facilitated their Dialogue and Masterclass sessions for 120 high school students from up to 10 countries
Meet-the-People Sessions Volunteer (2018-2019)	<ul style="list-style-type: none">Volunteered as an administrative assistant during sessions where members of the local community were able to seek assistance from members of parliament
Willing Hearts Soup Kitchen Volunteer (2016)	<ul style="list-style-type: none">Handled logistics as a member of the delivery team and helped in the kitchenAwarded the National Youth Achievement Award, Silver for 6 months of dedicated service

ADDITIONAL INFORMATION

Skills	<ul style="list-style-type: none">Experienced in Java, Haskell, C, Python, SQL, JavaScript, Node.js, and HTML & CSS.Well-versed in research methodology, having conducted research related to Computing since 2014.Proficient in Microsoft Office Suite, Adobe Photoshop
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Languages	English (Native), Mandarin Chinese (Native)
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