

ZHAI ZIRUN

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EDUCATION

Imperial College London

(Sep 2019 - Present)

Bachelor of Engineering, Computing
Second Year

- On track to first-class
- Attained overall A in first year, with an A in programming practical
- Modules 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)

- 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)

- Built a database of bugs in Deep Learning models, and stored it in Docker. The database can be used to apply Deep Learning to debugging Deep Learning models.
- Trained Deep Learning models using tensorflow in Python and expedited the identification of the presence of bugs by creating a test suite

Clickerance

Co-founder &
Back-end Developer
(Jan 2020 - ongoing)

- Developed concept and confirmed technical viability of a startup dedicated to making grocery shopping online according to dietary preferences more accessible
- Created 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)

- Conceptualized plans to mitigate technical faults in biometric security systems in government infrastructure, and presented them to a team of supervisors
- Reduced 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)

- Extracted information from criminal cases and presented it to supervisors to expedite work for litigation department
- Attended 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)

- Implemented an ARM emulator, assembler and assembly program in C
- Extended 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)

- Led a team to apply Deep Learning to tactile perception through Natural Language Processing using Python
- Research paper was published at the 19th International Conference on Computational Linguistics and Intelligent Text Processing
- Received 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)

- 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)

- 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)

- Handled logistics as a member of the delivery team and helped in the kitchen
- Awarded the National Youth Achievement Award, Silver for 6 months of dedicated service

ADDITIONAL INFORMATION

Skills

- 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

Languages English (Native), Mandarin Chinese (Native)