Zhi Hao Tan

Zhi Hao is a computer science graduate from Monash University and a recipient of Monash High Achievers Award who is eager to apply his passion and skills in computer programming and software development experience to help enable businesses to solve complex problems.

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EXPERIENCE

Teaching Associate, Monash University
(02/2021 – Ongoing)

Assisting lecturers and running lab sessions to enhance student learning for the unit Advanced Algorithm and Data Structures.

- Run lab sessions for different classes to explain concepts succinctly and clarify students' understanding of the different algorithms and data structures presented in the unit.
- Learned to explain concepts clearly and precisely.
- Learned to work in a professional setting as a team.

Research Position, Monash University IT Dept.
(12/2020 – 12/2020)

Took part in the development of a machine learning capable mobile app to predict if a patient will have complications when taking a medication.

- Created the pipeline and defined the work-flow for the development of the application.
- Researched methods to efficiently pull bulk data from the FHIR server.
- Enhanced knowledge of the use of Android Studio for Android app development along with the use of TensorFlow and Keras.
- Learned to research and self-learn new skills.

International Hackathon Team Leader, Hack Upstate XV
(12/2020 – 12/2020)

Created a relationship advice app using Flutter and powered by artificial intelligence.

- Led the back-end development team (4 members).
- Integrated the front-end with the back-end.
- Learned to use Flutter and Dart to create a cross-platform application.
- Learned about the software development life-cycle practically.
- Learned to work in a relatively big team (5 members in the back-end, and 7 in the front-end).

Team Leader, Computer Science Project
(07/2020 – 11/2020)

Created a coronary artery disease prediction web app. https://cadprediction.herokuapp.com

- Led a team of 3 - allocated tasks, organized meetings, resolved conflicts, and supervised team members' progress.
- Explored and used a novel feature selection technique.
- Developed machine learning models to embed inside the web app.
- Learned to work independently.
- Learned how to work on a project from scratch whilst applying knowledge obtained from all other units.

EDUCATION

Bachelor of Computer Science
Monash University

01/2018 – 12/2020

GPA: 3.917/4.000
WAM: 85.615

High Distinction (HD) Average.

IELTS (International English Language Testing System)

20/1/2021

Band: 8.5

- Writing: 7.0
- Reading: 9.0
- Speaking: 8.0
- Listening: 9.0

AWARDS AND ACHIEVEMENTS

- Monash International Merit Scholarship (2020)
- Top 12% in Adv. Algo and Data Structures Cohort (2020)
- Monash High Achievers Award (2018)
- High Distinction in National Chemistry Quiz, Malaysia (2015)
- Silver Medal in Kangaroo Maths Competition (2015)

VOLUNTEERING EXPERIENCE

Volunteer, Salvation Army
(01/2020 - 01/2020)

- Collected donations for bush-fire victims and helped to raise a cumulative total of $8.4m.
- Learned to communicate with a variety of people.

Business Consultant, Study Melbourne Live Project
(11/2019 – 01/2020)

- Analysed market penetration into India for Young Change Agents in a team of 5 as Study Melbourne Live Project's business consultant.
- Learned about working in a professional environment and learned to find out what users want.

SKILLS

PROGRAMMING LANGUAGES

- JavaScript: React.js, Node.js, Mocha.js, Material UI
- Python: SkLearn, Pandas, TensorFlow
- C: OpenMPI, POSIX, OpenMP
- Java
- TypeScript
- SQL
- HTML/CSS

LANGUAGES

- English: Native
- Mandarin: Fluent but low literacy
- Malay: Fluent and literate

HOBBIES

Youtube Channel
Started a Youtube channel - Aspiring Computer Scientist - to share what I have learned.

Drawing
I enjoy spending some time sketching things I find interesting.

INTERESTS

Machine Learning | Video Games | Philosophy | Badminton | Cybersecurity | Artificial Intelligence | Animations

REFERENCES
Available Upon Request