

# JORDAN TAY

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## EDUCATION

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### Imperial College London

London, UK

BEng Computing *Second Year*

2019 - 2022 (Expected)

- First year - 2:1, with 89% in Graphs and Algorithms
- Participated in events such as ICHack 20 and Google Hash Code

### Sunway College

Subang, Malaysia

Pre-University

2017 - 2018

- 4A\* at CIE A-Level in Maths, Further Maths, Physics, Chemistry, with Top in the world in AS Maths
- Grade 1 in Cambridge STEP 1 Maths
- Overall Grade 7.5 at IELTS

## PROJECTS

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### Rhythmap

2020

- Created a web app that allows user to store a rhythm created by clicking, and mapping it to a string
- Used React to create a user interface that is responsive to interactions, and stores rhythms and the action to be taken on that rhythm (either retrieve mapping or create new mapping) with Redux
- Used Express to receive post requests, and check whether the rhythm exists in Firebase realtime database by using a scoring algorithm to determine how 'wrong' each beat in the rhythm is

### Personal Website

2020

- Created a personal website as a first project to React, utilised the react spring library for smooth animations

### ARM11 Emulator/Assembler (Group Project)

2020

- Implemented an emulator and assembler for the ARM11 instruction set with C
- Extended the project with a music visualiser for MIDI files on a launchpad-like matrix board; mainly in charge of generating an effect to be displayed, given the properties in the MIDI file

### TOS Game

2020

- Replicated the basic mechanics of the game 'Tower of Saviours' on the play store, with p5, that involves grouping pieces of at least 3 in a row or column on a board to burst them
- The algorithm considers the board to be a graph, and after each turn by the user, determines all connected components in the graph and filters the components that contain at least 3 pieces on the board in a row

### Minesweeper

2019

- First introduced to OOP principles and concepts, and replicated the classic Minesweeper game with p5
- Algorithm involved a bfs traversal method to check all boxes around a box with no mines surrounding it

## ACHIEVEMENTS

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### Earlier Achievements

- Received a bronze medal in the Malaysian National Math Olympiad in 2018
- Received a bronze medal in the Malaysian Computing Olympiad in 2018
- Reached the silver division in USACO open contest in February 2018

## SKILLS AND INTERESTS

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### Languages

- Learning React and Express framework; familiar with Haskell, Java, and C (introduced at University); previously used C++ in programming contests, Javascript (p5.js) for web apps

### Extracurricular

- Interested in music, performed as the drummer in Imperial Malaysian Night 2020; was actively involved in performing arts events as part of the percussion ensemble in secondary school
- Other interests - Table tennis, chess, science and technology