Timothy Yeo

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EDUCATION & AWARDS

Imperial College London (current) 2019-2023
MEng Computing (Artificial Intelligence and Machine Learning)
- Year 1 – 1st class honours, including in the Programming 1 module
- Recipient of the IET Diamond Jubilee Scholarship for commitment to engineering

Dame Alice Owen's School 2012-2019
GCSEs – 11 A*s including in Mathematics and English Language
A Levels – 5 A*s in Maths, Further Mathematics, Physics, Economics, and Extended Project Qualification (EPQ)
- Wrote a paper as part of my EPQ on the topic "How to best use AI for socio-economic benefit"
- District Finalists of the Youth Speaks Competition, and awarded best Vote of Thanks (2015)
- Representative for UKMT and FMSP Team Mathematics Competitions (Regional Winner in 2014)

PROJECTS

Dannie Diets *Firebase, Flask, React, Heroku* 2020
- Created an API endpoint for Facebook Messenger chatbot and utilised the Wit.ai NLP API to categorize user intent and extract keywords; queried the Nutritionix API for nutritional breakdown and stored users' intakes in a NoSQL Firestore
- Users can either type or say what they ate, and can request their nutritional intake for the day such as calories etc.
- Created an accompanying React web app to visualize data on a user's nutritional intake as a percentage of their recommended daily intake and their nutritional intake for the past week on a graph

ARM11 Emulator and Assembler Group Project *C* 2020
- Implemented an emulator and assembler for the ARM11 instruction set
- Also assisted in the extension – A music visualizer for MIDI files displayed on a virtual 7x7 LED matrix board
- Led a team of 4 utilising a Gantt Chart to ensure we met deadlines, and also modularised the project into subtasks making various git branches, and also followed AGILE development principles

LinkUp (ICHack 20) - *http://mixpoint.herokuapp.com/ (Site is broken due to API issues) Flask, React, Heroku* 2020
- Created a website in 24 hours to find good meetup locations given an arbitrary number of input locations
- Used the Google Maps API and triangulated the input positions to suggest the best nearby attractions
- Implemented a "share" feature by generating a random ID and storing results in a MongoDB database

Smaller Projects *Misc.*
- Scraped data from Jisho.org to simulate an API call, returning information about an input kanji such as readings
- Completed the JPMorgan Virtual Internship Experience programme, gaining an insight into the Fintech industry
- Created a tic-tac-toe AI implementing the minimax algorithm and a minesweeper AI using a knowledge-based AI
- Completed numerous smaller projects in Haskell and Java, with experience in concurrency and data structures

WORK EXPERIENCE

FunTech – *Virtual / Onboard Camp Tutor* July 2020 - Present
- Worked as a Java and Python Tutor for groups of children aged 10/11 upwards
- Utilised analogies to explain simple algorithms such as linear search and bubble sort, as well as OOP concepts
- Devised daily challenges for children to practice their skills and learn about new topics such as encryption
- Deliver weekly demonstrations on Python and 3D game design (Unreal Engine) challenges

Advance Tutorial College - *Tutor* August 2017 - July 2018

Testbirds - *Tester* 2015 - 2018
- Tested various software including websites and mobile applications in the early stages of development to identify bugs relating to usability, UI/UX, and performance issues. All issues were then documented and written up in a report

SKILLS & INTERESTS

- **Skills:** Proficient and comfortable in Java, Python, JavaScript. Experience with C and Haskell.
- **Other Awards:** Piano (Grade 8 Distinction), French Horn (Grade 8 Distinction), Duke of Edinburgh Award Bronze
- **Related Interests:** Participant in various competitions such as Google Hash Code, Google Kickstart, and ICHack20
- **Interests:** Table Tennis, eSports, Smartphones and Technology, Learning Japanese, Reading