Zhi Qi Lee

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Technical Skills

Programming Languages: Python, Java, Haskell, HTML/CSS, SQL, Dart, C++, Verilog
Framework and Libraries: PyTorch, Pandas, NumPy, Scikit-Learn, Matplotlib, Beautiful Soup, Selenium, Flutter
Database: PostgreSQL, MongoDB
Developer Tools: Git, Linux CLI, VS Code, Conda, Eclipse, Vim, Vivado, LaTeX, Isabelle

Education

The University of Edinburgh   *Sep. 2018 – Nov. 2022*
Bachelor of Science in Artificial Intelligence and Computer Science   *Edinburgh, United Kingdom*
- First-class Honours
- Relevant modules: Computational Logic, Functional Programming, Object-Oriented Programming, Software Engineering, Computer Systems, Algorithms and Data Structures, Applied Machine Learning, Database Systems, Text Technologies for Data Science

Sunway College Johor Bahru   *Jan. 2016 – Jun. 2017*
Cambridge International A' Level   *Johor Bahru, Malaysia*
- Computer Science (A), Mathematics (A), Accounting (A), Economics (A)

Projects

Computational Psychiatry in PTSD | Python, PyMC3   *Sep. 2021 – Sep. 2022*
- Searched and evaluated the available research papers about the computational psychiatric approach to PTSD
- Critical analysis and compared algorithmic models of PTSD
- Implemented the Rescorla-Wagner (RW) model from scratch
- Used hierarchical Bayesian model and Markov chain Monte Carlo (MCMC) sampling algorithm to fit the data simulated from the RW model

Mini database system | Java   *Mar. 2022 – Apr. 2022*
- Implemented a lightweight database system which supports operations such as scanning, selection, projection, join and aggregation for evaluating conjunctive queries with test-driven development (TDD) approach
- Implemented the minimisation procedure for conjunctive queries by using backtracking algorithm
- Implemented relational operators and built a query tree that is a tree of operators by applying object-oriented programming (OOP) concepts
- Scored 90 for this coursework where the maximum score is 100 and the average score is 64.6

Boogle | MongoDB, PyMongo   *Jan. 2022 – Mar. 2022*
- Worked in a group of 6 to implement a live book content search engine, collaborated using Trello and Github
- Cleaned data scraped from websites
- Implemented tokenizer, stopword removal and porter stemmer for text pre-processing
- Designed the database schema and was responsible for work related to databases, such as the setup and maintenance of the database and implementation of the database accessor module

News Search Engine | Python   *Sep. 2021 – Oct. 2021*
- Pre-processed a collection of news articles from the Financial Times
- Implemented boolean search, phrase search, proximity search and ranked information retrieval system by using the pre-processed texts

PAUL | HTML/CSS, Figma   *Feb. 2021 – May. 2021*
- Worked in a group of 8 to implement a UV disinfection robot, collaborated using Trello and Github
- Designed an accessible marketing website for the robot
- Designed and developed user interface for the user web app which allow remotely controlling of the robot

Drone control Software | Java   *Oct. 2020 – Dec. 2020*
- Implemented a drone path planning program with test-driven development (TDD) approach
- Parsed the data that is collected from the web server and created data visualisation
- Applied object-oriented programming (OOP) concepts and effective Java practices such as immutability
- Wrote a report about the software architecture and the drone path planning algorithm with UML class diagrams
- Scored 90 for this coursework where the average score is 74.64 and the maximum score is 100

Working Experiences

Tutor & Marker & Demonstrator   *Sep. 2019 – Dec. 2020*
School of Informatics, University of Edinburgh   *Edinburgh, United Kingdom*
- Worked as a teaching support team member for the Introduction to Computation course with over 450 students
- Marked formal assessments and provided constructive feedback
- Prepared for tutorials and assisted students in understanding the key concepts of course during tutorial sessions

Sales Manager   *Sep. 2017 – Jun. 2018*
Oh Honey Enterprise   *Johor Bahru, Malaysia*
- Formulated new sales strategies to support revenue growth
- Built and promoted long-lasting customer relationships by partnering with them and understanding their needs
- Organised trade show booth, including layout, set up and disassembling of equipment
- Trained junior sales staff
- Top seller in the team since the third month of doing this job and record maintained throughout the whole period

Head Waitress & Cashier & Bookkeeper   *Jan. 2017 – Jun. 2017*
Culture Street Cafe   *Johor Bahru, Malaysia*
- Addressed customer complaints about food service and aided restaurant manager in improving work procedures
- Took customers' orders, collected food orders from the kitchen and served them to customers
- Invoiced customers and paid vendors for their goods and services
- Handled closing duties such as restocking items and reconciling a cash drawer

Academic Awards

Outstanding Cambridge Learner Awards 2017, Malaysia
- achieved the highest marks in Malaysia in the first part of A' Level Computer Science

Extra-Curricular Experiences

Volunteer   *Jul. 2021 – Feb. 2022*
The Turing Trust   *Edinburgh, United Kingdom*
- Tested the functionality of computers
- Wiped and refurbished computers
- Packed computers that are destined for Africa

Committee Member   *Sep. 2019 – Dec. 2020*
sigCoin interest group of CompSoc   *Edinburgh, United Kingdom*
- Hosted events on technical topics and other aspects of cryptocurrencies and blockchain technology

Language Skills

Chinese (first language), English (fluent), Malay (fluent)