

Zhi Qi Lee

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Profile

As a software engineer with 6+ years of coding experience, my aim has been to explore different parts of computer science, thereby acquiring hands-on experience. With exposure to a wide array of technologies across multiple programming languages and frameworks, I am confident that I will be able to pick up new skills and technologies quickly. Please check out my personal website (<https://zqlee.xyz>) where I take notes and showcase projects.

Education

The University of Edinburgh

Sep. 2018 – Nov. 2022

BSc (Hons) Artificial Intelligence and Computer Science (1st)

Edinburgh, United Kingdom

- 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, Computer Architecture

Sunway College Johor Bahru

Jan. 2016 – Jun. 2017

Cambridge International A' Level

Johor Bahru, Malaysia

- Computer Science (A), Mathematics (A), Accounting (A), Economics (A)
- Outstanding Cambridge Learner Awards 2017 for Computer Science (Highest marks in Malaysia)

Projects

Personal Website | React.js, JavaScript, HTML, CSS

Jul. 2023 – Aug. 2023

A client-side rendering React website <https://zqlee.xyz>

- Designed and built portfolio website from scratch with Vite
- Implemented dynamic routing with React Router, leading to a reduction in initial load time
- Deployed the website on Github Pages
- Developed an automated CI/CD pipeline with Github Actions to build and deploy, resulting in a 70% reduction in deployment time

Computational Psychiatry in PTSD | Python, PyMC3, Theano

Sep. 2021 – Sep. 2022

Honour project <https://github.com/abc12345d/Honour-Project>

- Critical analysis and compared all the algorithmic models of PTSD
- Implemented the Rescorla-Wagner (RW) model from scratch
- Runs parameter recovery using hierarchical Bayesian model and Markov chain Monte Carlo (MCMC) sampling algorithm

Mini database system | Java

Mar. 2022 – Apr. 2022

A relational database system which handles conjunctive queries (subset of SQL)

- Implemented basic data operations such as scanning, selection, projection, join and aggregation and relational operators by using OOP concepts
- Built query tree and database engine which handles queries according to query tree
- Optimised database performance by query minimisation and query plan transformation, resulting in at least a 75% reduction in query processing time
- Scored 90 for this coursework where the maximum score is 100 and the average score is 64.6

Gutenberg Book Search Website | Python, MongoDB, PyMongo

Jan. 2022 – Mar. 2022

A full-stack website with a NoSQL database https://github.com/ttds2022-group32/Boogle_Search_Engine

- Worked in a group of 6, and collaborated using Trello, Teams and Github
- Cleaned data scraped from the Project Gutenberg website
- Performed data preprocessing in preparation for the search engine implementation.
- Responsible for work related to databases, such as the design of database schema, setup and maintenance of the database and implementation of the database accessor module

A medium-scale path planning software https://abc12345d.github.io/file_server/ilp_report.pdf

- Analysed project requirements and developed the software architecture by applying OOP concepts and Effective Java concepts such as immutability
- Demonstrated the software architecture with UML class diagrams
- Wrote Javadoc to generate API documentation from Java source codes
- Scored 90 for this coursework where the average score is 74.64 and the maximum score is 100

Working Experiences

Tutor & Marker

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
- Prepared for tutorials and helped students in understanding the key concepts of course during tutorial sessions
- Marked formal assessments and provided constructive feedback

Lab Demonstrator

Sep. 2019 – Dec. 2019

School of Informatics, University of Edinburgh

Edinburgh, United Kingdom

- Assisted students in configuring their programming environments
- Explained coding problems with examples
- Provided guidance to students as they worked through lab exercises.

Sales Team Leader

Sep. 2017 – Jun. 2018

Oh Honey Enterprise

Johor Bahru, Malaysia

- Top seller in the team since the third month of doing this job and record maintained throughout the whole period
- Formulated new sales strategies, resulting in an 80% increase in revenue
- Built and promoted long-lasting customer relationships
- Organised trade show booth, including layout, set up and disassembling of equipment
- Trained junior sales staff

Extra-Curricular Experiences

Volunteer

Jul. 2021 – Feb. 2022

The Turing Trust

Edinburgh, United Kingdom

- Tested the functionality of computers
- Wiped and refurbished computers

Technical Skills

Programming Languages: Python, Java, JavaScript, HTML/CSS, SQL, Dart, Haskell, C++

Technologies: React, PyTorch, Pandas, NumPy, Scikit-Learn, Matplotlib, BeautifulSoup, Selenium, Tkinter, Flutter

Database: PostgreSQL, MongoDB

Developer Tools: Git, Linux CLI, VS Code, npm, Conda, Vim, Markdown, LaTeX