JACK BAI

DEV

TECHNOLOGIES

Proficient in:
HTML | CSS | R | R Markdown
Python | LaTeX | Racket

Working Knowledge in:
Bash | Git | C# | C
React.JS | Unity

RELEVANT COURSEWORK

Data Structures and Algorithms
Implemented robust solutions in C to assignment specifications

Introduction to Computer Science II
Developed strong programming principles and implemented elegant, efficient solutions in Python

Applied Linear Models
Utilized R to optimize Multiple Linear Regression Models

Computational Statistics
Used R Markdown to produce visually professional reports

HOBBIES AND INTERESTS

Collegiate E-sports Athlete at the University of Waterloo

Winner of Collegiate Star League for League of Legends ($5000USD)

Executive Member of the UW Kendo Club

CONTACT

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EXPERIENCE

INSTRUCTIONAL SUPPORT ASSISTANT (CS 116)
University of Waterloo | Jan 2021 - April 2021

- Helped students conceptually understand high-level data structures through 110+ hours of individualized instruction
- Sharpened Python knowledge by integrating student code to reach unique solutions
- Promoted fluid teamwork and collaboration through initiating dialogues between colleagues and professors for course consistency

STUDENT TEACHER
Heritage International School | Sept 2020 - Jan 2021

- Facilitated differentiated learning from diagnostic tooling to maximize student learning for Grade 6 students
- Prepared active and immersive lessons through assessing student engagement and feedback to spark student involvement, resulting in a 100% student approval rating

INSTRUCTIONAL SUPPORT ASSISTANT (CS 136)
University of Waterloo | May 2020 - Aug 2020

- Used Bash scripts to automate testing assignments and course knowledge through a SSH connection
- Quickly adapted to an online environment, providing one-on-one support to dozens of students weekly through Microsoft Teams
- Showed exemplary interpersonal and presentation skills, receiving a perfect grade from anonymous feedback polls by students

PROJECTS

JACKBAI.CA (WIP)
HTML | CSS | JavaScript | React.JS | Git

- Work in progress website about personal hobbies, interests, and projects
- Done to apply learnings from a Udemy course on React.JS

PENGUIN TROUBLE
Unity | C# | Git

- Created a 2D game using Unity with C# scripts to explore the domain of game development
- Used OOP principles for maintainable and modulcode

TFT TRACKER
HTML | CSS | JavaScript

- Created an interactive website with a custom domain to apply my academic HTML, CSS, and JavaScript skills

EDUCATION

CANDIDATE FOR HONOURS MATHEMATICS, STATISTICS
University of Waterloo | 2018 - 2023