UBC Science Co-op

Zhaoyang (Charles) Zheng
Year 4 Computer Science Major

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EDUCATION

University of British Columbia (UBC), Vancouver, BC   Aug 2020-May 2024
- Bachelor of Science, Major in Computer Science.
- Course highlights: Java, Probability Theory, HTML, Statistics with R, C++, SQL, JavaScript.

PROJECT EXPERIENCE

Event organization operational system   Jan 2022-Apr 2022
- Researched the market need for an event organization operational system by applying niche market research within the campus.
- Developed complex interface using Java and applied (Load and Save) and other supporting functions.
- Delivered user-friendly functionalities such as calculating event participants, monitoring participant status and conducting event fund allocation.

Oracle Database   Jun 2022-Aug 2022
- Modelled the domain of the application and defined the application functionalities using SQL.
- Designed and implemented the schema into the database.
- Populated the database and utilized applications such as Graphical User Interface (GUI), JDBC, and PHP to connect the database with the user platform.

Heart disease prediction   Sept 2022-Jan 2023
- Predicted various kinds of heart diseases by importing data and making data visualizations and predictions by using R studio.
- Used recipe to preprocess the data and included scaling and centering all predictor variables to ensure they all have a mean of 0 and standard division of 1.
- KNN model specification and nearest neighbours function with straight line distance to find the best numbers of data.

Job Experiences

Event Manager, Boardgame Club, UBC, Vancouver, BC   Aug 2020-Oct 2022
- Organized multiple events related to board games and cross-cultural communication.
- Collaborated with Director, VP, and other club members to monitor student club day-to-day activities.
- Built strong relationships with university supporting departments and sponsor companies.

Instructor, Weifang, Shandong, China   May 2023–July 2023
- Designed and developed age-appropriate programming courses in Python and C, tailoring content to align with the varying comprehension levels of middle school students.
- Engaged in persuasive discussions with parents, highlighting the significance and future benefits of coding skills for their children's education and career prospects.
- Guided students in completing interactive projects resulting in a showcase event attended by over 100 parents.

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Learning Tech Rover, UBC, Vancouver, BC   Jan 2024–August 2024(Ongoing)

- Excelled in customer service and helpdesk support, with strong verbal and written communication skills for faculty support.
- Helped build several websites specifically designed for teaching purposes, demonstrating proficiency in HTML, CSS, and JavaScript.
- Familiar with a wide range of educational technologies. Proficient in producing engaging and informative video tutorials with Camtasia, alongside experience in graphic editing using Adobe Photoshop

SKILLS

- R Studio, Java, C++, HTML, PHP, SQL, JavaScript
- Language: Mandarin, English