

Yiwen Dai

1B COMPUTER SCIENCE STUDENT

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Assets

Languages: **Python** · **C/C#** · **Scheme (Racket)** · **Java** · **R** · **SQL** · **HTML** · **CSS**

Tools and platforms: **PyCharm** · **Git** · **Unix** · **Visual Studio** · **Windows, Linux and Mac OS**

- **Problem-solving** and analytical thinking
- Strong **communication** skills and cooperative in collaborative settings
- Focused and **detail-oriented** approach to completing tasks
- Excellent **time management** skills in stressful/fast paced environments

Projects

Sudoku Solver/Generator

COMPLETED

- Generates and solves valid 9x9 Sudoku boards using a Python program through recursion and a backtracking algorithm

AI Chatbot

IN PROGRESS

- Currently designing a simple deep-learning Chatbot using Python, TensorFlow, and NLTK
- Designing and training a neural network as well as creating and deploying a Chatbot that is used to answer questions about a business

AI Tic-Tac-Toe

IN PROGRESS

- Currently creating and testing a tic-tac-toe game in Python using a simple AI

Experience

English Tutor

Dec 2018 - Jul 2019

SELF-EMPLOYED

- Created and developed individualized one-on-one lesson plans to significantly improve students' English proficiency
- Prepared student for English speech competitions to earn a second place distinction
- Demonstrated responsibility through planning and adjusting to create the most suitable lesson plans to match the students' goals

Research Assistant

Aug 2018 - Sep 2018

WASHINGTON STATE UNIVERSITY

Pullman, Washington

- Assisted in research investigating cell differentiation of myocytes and adipocytes
- Improved laboratory skills and knowledge of molecular biology
- Successfully isolated and maintained several collections of cell samples in preparation for the experiments

Cashier

Richmond Hill, Ontario

CANADIAN TIRE

Jun 2019 - Aug 2019

- Executed customer transactions accurately and efficiently, balanced more than \$2,000 in cash daily
- Provided extraordinary customer service to improve customer experience, maintaining no customer complaints

Social Media Promotion Volunteer

Richmond Hill, Ontario

L'ARCHE CANADA FOUNDATION

Jan 2017 - Jul 2017

- Used social media (Twitter, Facebook, Instagram, the website) to help raise the public's awareness of the non-profit organization, successfully doubling the number of followers on Facebook
- Took initiative to assist with the office administrative tasks and duties to maintain an efficient working environment

Education

University of Waterloo

2019 - anticipated 2024

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

Waterloo, Ontario

- Relevant Courses: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction
- Awarded University of Waterloo President's Scholarship of Distinction

Clubs

Music Council Pod Leader

Sep 2015 - Jun 2019

BAYVIEW SECONDARY SCHOOL

Richmond Hill

- Successfully planned and organized numerous large-scale (over 400 people) social events (e.g. talent shows, banquet) for the music department and the school
- Demonstrated leadership and communication skills by leading and delegating tasks to volunteers and fellow pod members for events

Repertoire Section Leader

Richmond Hill, Ontario

BAYVIEW SECONDARY SCHOOL

Sep 2015 - Jun 2019

- Took initiative to handle administrative and organizational responsibilities of the band