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Education

University of Toronto

HONOURS BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

- CGPA: 4.00/4.00 (A+ in all computer science courses, A/A+ in all other courses)
- Relevant courses: Neural Networks and Deep Learning, Machine Learning, Probabilistic Learning, Algorithms, Artificial Intelligence, Web Programming, Databases, Data Structures, Software Design, Systems Programming, Computer Organization, Theory of Computation

Skills

Languages Python, Java, C, C++, HTML, CSS, JavaScript, PostgreSQL, MS SQL Server, MySQL, Oracle Database, Shell, LaTeX, Assembly, R Others Numpy, PyTorch, Keras, LightGBM, React, Django, jQuery, Unix, Git, SpringBoot, Spring Batch, MyBatis, IntelliJ/PyCharm, Vim

Experiences

The Goldman Sachs Group, Inc.

SUMMER ANALYST

- Worked on multiple tax engineering projects using Java/SQL/Spring Batch
- Automated the process of data lake ingestion, polling, and reconciliation of tax data, allowing reusability and easy modification

China Distance Education Holdings Ltd.

SOFTWARE ENGINEER

- Added new features to 5+ projects (used by 1000000+ people) using Java/SQL (for backend) and HTML/CSS/JavaScript (for frontend)
- Designed and created database schema using Oracle Database for a new project (prospected to be used by 500+ people annually)
- · Implemented multiple core features for the new project using SpringBoot, MyBatis, and Thymeleaf

Projects

"An Image is Worth One Sentence": Fast Textual Inversion with Supreme Initialization

NEURAL NETWORKS AND DEEP LEARNING COURSE PROJECT

- Improved textual inversion, a state-of-the-art image personalization method, by increasing its convergence speed from 5000 steps to 100 steps
- Image personalization is dynamically customizing the given image(s) to match the user's prompt
- Pioneered the multi-token initialization method and the class/caption initialization method

Restify

WEB PROGRAMMING COURSE PROJECT

- Created an application for property rentals using Python/Django as backend and React/HTML/CSS/JavaScript as frontend
- On the tenant's side, supports property searching/filtering, making a reservation, cancelling, rating/commenting, and notifications
- On the host's side, supports property creation/editing, variable price based on date, accepting/denying reservations, and rating/commenting

Predicting Student's Correctness on Questions

MACHINE LEARNING COURSE PROJECT

- Designed a neural network with **PyTorch** for predicting whether a student could correctly answer a question
- Used an autoencoder with pretrained item response theory parameters injected to its latent
- Achieved an accuracy that is ranked top 3 among the course (assessed on Kaggle)

Awards

- Jun. 2023 Dean's List Scholar University of Toronto
- Lecily (White) (Johnston) Hutcheson Scholarship University of Toronto Nov. 2022
- Jun. 2022 Dean's List Scholar University of Toronto
- Mrs F N G Starr Scholarship University of Toronto Sep. 2021
- Dean's List Scholar University of Toronto Jun. 2021
- Top 75 in British Columbia Canadian Open Mathematics Challenge Nov. 2019

Interests and Activities

Volunteering Hosted monthly concerts at the Senior's Centre, The Maple Residences, Richmond BC Music ARCT in Piano Performance, First Class Honours, The Royal Conservatory of Music Hobbies Enjoys playing piano, playing badminton, swimming, and listening to classical music Sep. 2015 - Jun. 2020 Jun. 2020 Ongoing

University of Toronto

Toronto, Ontario, Canada Jun. 2023 - Present

Beijing, China

Jun. 2022 - Aug. 2022

University of Toronto Jan. 2023 - Apr. 2023

University of Toronto Jan. 2023 - Apr. 2023

Nov. 2022 - Dec. 2022

Toronto, Ontario, Canada Sep. 2020 - Jun. 2024