Richard Trieu

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EDUCATION

UNIVERSITY OF WATERLOO — Waterloo, ON
Bachelor of Mathematics — Expected August 2028
Major in Computational Mathematics; Minors in Computing
Relevant Coursework: Functional Programming, Elementary Algorithm Design, Data Abstraction, Data Types and Structures, Software Development, Discrete Mathematics, Probability, Linear Algebra 1 & 2, Calculus 1, 2 & 3

STANFORD ONLINE — Remote
Machine Learning Specialization — Jun 2024 - Aug 2024
Relevant Coursework: Supervised Machine Learning, Linear Regression, Logistic Regression for Classification, Gradient Descent, TensorFlow, Artificial Neural Network, Xgboost, Tree Ensembles, Anomaly Detection, Unsupervised Learning, Reinforcement Learning, Collaborative Filtering, Recommender Systems

PROJECTS

RIOT API DISCORD IMPLEMENTATION — Jul 2024
- Used Riot API and Discord API to create a service which allows users to interact with the Riot API through Discord
- Implemented cookie-based authentication by retrieving access and entitlement tokens from the Riot API to securely link user accounts with Discord
- Parsed through JSON responses to extract and format relevant data for display in Discord

COMPUTER SCIENCE CLUB WEB APPLICATION — Oct 2022
- Used HTML, CSS, and JavaScript to create a web application from scratch that provides members with information and updates regarding club events and activities
- Closely worked with other members to learn web development and create a functional and informative website

PONG GAME RECREATION — Jan 2023
- Created a Pong Game alongside members with documentation of our progress to simulate the Agile Development Process.
- Implemented a computer that can play against the player in a single player mode.

PERSONAL WEBSITE — Aug 2024
- Created a minimalistic personal website displaying experience, about, contact, and resume

LEADERSHIP AND EXPERIENCE

HNSS COMPUTER SCIENCE CLUB — Vaughan, ON
Vice President — Sep 2022 – June 2023
- Responsible for preparing and presenting lessons, planning events, and creating problem sets that inspire critical thinking and problem-solving skills.
- Created a collaborative and educational environment where members are encouraged to think, socialize and be creative.
- Led engaging discussions to understand and educate members on evolving technologies.

CANADA'S WONDERLAND — Vaughan, ON
Ride Operator — Jul 2024 – Aug 2024
- Managed the safe loading and unloading of passengers in compliance with park safety standards.
- Delivered clear and concise instructions over public address systems to ensure guest understanding of ride requirements.

TECHNICAL SKILLS

Technical Skills: Java, JavaScript, C++, Python, HTML/CSS, Linux, Git, MS Office, VS Code, Eclipse
Libraries: TensorFlow, Scikit-learn, Pandas, Matplotlib, NumPy
Soft Skills: Collaboration, Leadership, Creative, Critical Thinking, Communication
Languages: Fluent in English; Conversational Proficiency in Cantonese