ANDREW XUE

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EDUCATION

The University of Waterloo	Bachelor of Computer Science	Expected June 2025
Earl Haig Secondary School	Ontario Secondary School Diploma	June 2020

ACADEMIC PROJECTS

Oracle   May 2020 - Present
- Developed fully-functional music player for MacOS using SwiftUI
- Implemented ability to evaluate user's tone using IBM Watson Tone Analyzer and recommend songs based on user's current mood accordingly
- Utilizes multiple types of HTTP requests to interact with Spotify API to search and retrieve songs, albums, and playlists

Peerify - *'Best Overall Project' at Ignition Hacks 2020*   August 2020
- A web application that turns online study sessions into social experiences
- Gamifies study sessions by allowing users to evaluate the impromptu writing of their fellow peers by giving constructive feedback as well as a discrete score
- Summarizes games by displaying top words that show a positive or negative correlation with score for users to gain insight on areas of excellence/weakness
- Built using Node.js, React.js, Socket.io, and Python (for machine learning model)

Present Worthy   July 2020
- An online service that determines the 'worthiness' of a present based on the gift receiver's preferences and recommends possible alternatives
- Employed Google's Cloud Vision API to label images of presents and Apify to scrape Amazon pages for related presents
- Built using Node.js, Javascript, HTML, and CSS

LEADERSHIP EXPERIENCE AND ACTIVITIES

Earl Haig Programming Club - *Vice President*   September 2019 - June 2020
- Performed lectures on advanced algorithms and data structures relevant to competitive programming in preparation for the CCC, DMPG, and ECOO
- Coordinated and recommended programming contests for club members through the DMOJ and Codeforces platforms
- Increased club size by over 100% through advertisement and club events

TOHacks - *Volunteer*   May 2018
- Networked with participants as well as first-time sponsors in this inaugural hackathon to ensure the continued sponsorship of the TOHacks organization
- Advertised and attended workshops on DevOps, database automation, and HTML/CSS
- Assisted in the organization of sponsorship tables for maximized effectiveness based on their required space, ability to attract participants, and relevancy to neighbours

HONOURS AND ACHIEVEMENTS
- Faculty of Mathematics Entrance Scholarship ($8000)
- President's Scholarship of Distinction ($2000)
- Canadian Computing Olympiad bronze medalist
- Canadian Computing Competition scored 10th out of 2827 participants

ADDITIONAL INFORMATION
Programming Languages: Python, C++, Javascript/Typescript, Swift, SAS
Frameworks/Tools: Node.js, React.js, Socket.io, Redux, Git, Docker
Certifications: Introduction to IoT (2019), Programming Essentials in C++ (2019), SAS Certified Base Programmer (2020)
Languages: Native English, Fluent Mandarin