Dylan Dai

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EDUCATION

University of Waterloo   Waterloo, Ontario
Candidate Bachelor of Computer Science   *Expected: April 2028*
Faculty Average: 85%
Relevant coursework: Compilers, Advanced Functional Programming, Abstract Algebra, Calculus I

WORK EXPERIENCE

Senior Data Quality Specialist - Developer | Python, C++, Java, JS   Toronto, Ontario
Cohere   *August 2024 − Present*
- Annotated and corrected over **700** coding test sets for evaluating the quality and accuracy of LLM-generated code
- Reviewed the quality and correctness of over **300** coding test sets from other senior annotators
- Used **BeautifulSoup** and **Pandas** to webscrape and format programming problems to increase work efficiency by over **300%**
- Created and annotated over **5** mini-projects, including automated word-game solvers, and a digit detection model

PROJECTS

Music Tracking Game (Devpost) | MATLAB, Flask, HTML, CSS, JavaScript   *June 2024*
- Won **Best use of MATLAB** from **200+ participants** by developing a musical accuracy tracking game
- Implemented **cross-correlation** to compare two audio waves by extracting two vectors of amplitudes
- Tracked musical accuracy by adjusting lag from both audio waves, giving feedback every **50 milliseconds**
- Deployed an interactive web platform to retrieve and display game information in real time

Image Detecting Waste Sorter (Devpost) | Google Cloud, Hugging Face, Flask, JavaScript, Python, React Native   *May 2023*
- Made an application built with **React Native** to identify and sort waste using a camera for object detection with **90% accuracy**
- Used **Google Cloud's Vision AI** for object detection and classification to send to manually parsed waste database with **JS**
- Combined embeddings with a **384 dimensional dense vector space** using AI model **all-MiniLM-L6-v2**
- Sent response data and associated weights to the **REST API** of the **Flask backend** to identify disposal strategies

Voice Automated Assistant (Github) | Cohere, Whisper, Python, TKinter   *May 2023*
- Made an AI-driven tool that interprets voice input using **Whisper** into computer commands
- Implemented voice-to-text transcription to send information to **Cohere's API** to categorize the command
- Used **Google Cloud search API** for web search, and implemented Python keyboard and mouse macros to execute commands

AWARDS

Canadian Computing Olympiad | Bronze Medalist   *May 2024*
- Placed **14th out of 4000+ participants** in national-level computing competition, invited to Canada's team selection invitational
- Solved algorithmic problems using data structures, graph theory, and combinatorics in C++

Math Contests
- Placed in the **97th percentile** in UWaterloo's Euclid Contest (27650 participants) | Distinction Award   *April 2024*
- Placed in the **99th percentile** in UWaterloo's Senior Mathematics Contest (16805 participants) | Honour Roll   *November 2023*
- Placed in the **99th percentile** in UWaterloo's Hypatia Contest (7816 participants) | Honour Roll   *April 2023*

EXTRACURRICULARS

General Member
The Prefects Charity Organization   *October 2021 − June 2024*
- Guided and collaborated with ∼30 people to raise ∼**$10,000 of profit annually** for charitable organizations
- Represented the school by leading and executing **over 25 events** such as bake sales, student socials, etc

SKILLS

Languages: Python, C++, C, Java, JS, TypeScript, Racket, Clojure, HTML, CSS
Technologies: Git, React, React Native, Flask, GCP
Libraries: NumPy, Pandas, BeautifulSoup, MATLAB, Whisper, TKinter