Dylan Dai

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EDUCATION

University of Waterloo Expected May 2028
Bachelor of Computer Science (Honours) *Waterloo, Ontario*
Coursework: Data Structures & Algorithms, Compilers, Object Oriented Programming, Computer Architecture

SKILLS

Languages: Python, TypeScript/JavaScript, SQL, C++, C, Bash
Frameworks & Tools: AsyncIO, Next.js, React, Pandas, PyTorch, NumPy, PostgreSQL, GCP, Cursor
Interests: Fashion, Digital Art, Tetris, Puzzle Games, Thrifting, Guitar, Rubik's Cube Puzzles, Travelling

WORK EXPERIENCE

Stealth September 2025 – December 2025
Software Engineer Intern *San Francisco, CA*
- Seed stage startup backed by **General Catalyst** to enhance pharmaceutical market research
- Building data pipelines to parse pharmaceutical surveying data for synthetic data creation and backtesting
- Building synthetic data creation pipelines by training machine learning models and creating evaluation tooling

Cohere May 2025 – August 2025
Software Engineer Intern *Toronto, ON*
- Saved **$100,000+ monthly** and **35%** in runtime by adding batching to **all** company-wide AI model calls
- Reduced evaluation effort by **30%** by building a tool to access all Cohere's AI model benchmark statistics
- Saved **20%** in GPU runtime by adding cost tracking and aggregation for **all** company-wide AI model calls
- Reduced server load for storing AI model queries by **90%** from implementing decision trees for item indexing

Cohere September 2024 – December 2024
Data Engineer *Toronto, ON*
- Managed coding datasets used to train state of the art machine learning model Command-A
- Implemented web-scraper to extract **1,000+** questions from programming websites for LLM training datasets
- Designed and solved **200+** data structure and algorithm problems to train and evaluate Cohere's LLM models

PROJECTS

AI Dataset Undersampler | NumPy, TypeScript, Three.js, Scikit-learn
- Diversifies AI model training datasets by **30%** by building a tool to analyze and filter data using k-means
- Visualized data by embedding data then using Principal Component Analysis for vector compression

Music Tracking Game | MATLAB, Flask
- Evaluated audio similarity in real-time with cross-correlation for lag correction and amplitude scaling
- Built Flask backend for music performance game via audio stream to MATLAB

AWARDS AND ACHIEVEMENTS

Canadian Computing Olympiad Bronze Medalist | Placed **14th** out of 10,000+ participants
National Speedcubing Competitor | Ranked **top 50** nationally with best Rubik's cube solve of **6.22 seconds**
National Band Festival Winner | Mentored group of **30+** clarinet musicians to gold award performance
National ranked Tetris player | **Top 50** global for tetris.com
Hack the 6ix Winner | Won **$1,000** for best Vellum project out of **500+ participants**
GenAI Genesis Hackathon Winner | Won **$800** for best DEI project out of **700+ participants**
UTRAHacks Winner | Won **$300** for best Databricks project out of **400+ participants**