

Andrew Pols

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Summary of Skills & Experience

- Second-year Computer Science student at the University of Toronto with strong in-course fundamentals, as evidenced by a 4.0/4.0 cGPA.
- Applied knowledge into continually maintained projects that reflect software engineering principles.
- Programming Languages: Python, Java, JavaScript/JSEX/HTML/CSS
- Frameworks & Libraries: Django REST, Node.js, ReactJS, GSAP, OpenCV, Scikit-learn, Statsmodels, Pandas

Education

BSc., University of Toronto

2024 - 2028

- Specialism in **Computer Science**, Major in **Statistics**
- **cGPA: 4.0/4.0**

Projects

FindMySound – Music Recommender Web App

- Developed a full-stack web application with **Django** and **ReactJS** that utilizes the Spotify Web API to collect user playlists and provide curated music.
- Recommended music through comparisons between candidate songs and songs in the user's playlists with **Scikit-learn's** cosine similarity function.
- Maintained a user base through a custom user model, with authentication handled by Django's **Simple JWT**.

ScholarSearch – Graph-Based Search Engine for Research Papers

- Provided a web app displaying graph-based visual networks with **D3.js** for viewing scholarly papers on a given query, emphasizing nodes which have been cited the most in the visualization.
- Utilized fundamental Computer Science concepts including Graphs, Object Oriented Programming, and Lexical Search with **BM25** for the functional components of the app.

Canadian Social Connection Survey – Statistical Analysis

- Utilized the **Statsmodels** library to produce multiple linear regression and bootstrapping with statistical significance.
- Discovered that those who work from home have a lower self-reported perception of their accomplishment to burnout ratio.
- Formatted results through visualizations using histograms and kernel density estimator plots with **Matplotlib**.

Computer Vision Sudoku

- Developed a software that processes images and live video of a Sudoku grid in order to solve the puzzle and overlay the solution on the grid image.
- Leveraged **OpenCV** classes including Hough Line Transforms to perform line-detection on a flat plane.

Work Experience

Camp Counsellor

Aug 2023

STEM Camp – Windsor, ON

- Oversaw large groups of children through a one-month volunteer position at a STEM-based summer camp.
- Led and directed various activities and lessons in the sciences while also ensuring the safety of over 30 enrolled children each week.

Front End Worker (Cashier)

July 2022 - Dec 2022

Real Canadian Superstore – 4371 Walker Rd, Windsor, ON

- Memorized price look-up codes and handled cash with quick mathematical thinking to streamline the checkout process, reducing scanning time and improving customer service efficiency.

Awards & Distinctions

- University of Toronto Dean's List Scholar 2025
- The Governor General's Academic Medal (Secondary School) 2024
- Valedictorian, Holy Names High School 2024