

# Jason Li

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## EDUCATION

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**University of Toronto** 2019–2024  
Honours Bachelor of Science  
Mathematics Specialist and Computer Science Major

## NOTABLE PROJECTS

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**Portfolio Website and Blog** Nov. 2023  
*Dynamically Generated Site Built with Hugo Framework*

- The published website showcases coding projects, a personal blog, and an extensive notes library
- Leveraged GitHub workflows as a back end for seamless daily CI/CD of the website

**Deep Learning Ensemble Methods on Medical Imaging** Apr. 2023  
*Computer Science Research Paper on Machine Learning*

- Trained and verified various CNN models on the diagnosis of eye diseases to find the best base models
- Novel application of ensemble methods had a **3%** improvement during test compared against benchmarks

**Neural Network Natural Language Model** Feb. 2023  
*A Practical Implementation of BERT Masked Language Model*

- Implemented a **PyTorch** deep learning model that successfully predicted substitutions for hidden words
- Analyzed model predictions for bias that revealed insights on how frequency affects word similarity

**Topological Data Analysis Paper** Aug. 2021  
*Applied Math Research Paper on Data Analysis*

- Authored a paper investigating applications of the nerve theorem in analyzing features for data science
- Concluded that topological algorithms are a novel means to detect features in high dimensional data

## EXPERIENCE

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**High School Teaching Assistant** 2023- Now  
*TCDSB*

- Led drop in clinics addressing student needs in challenging topics in math, computer science, and statistics
- Collaborated with teachers in a classroom setting supporting students with diverse learning needs

## LANGUAGES, TECHNOLOGIES, AND ACHIEVEMENTS

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**Languages** C, C++, Python, Java, PostgreSQL, HTML, CSS, JavaScript  
**Technologies** React, Hugo, PyTorch, Git, BASH, LaTeX, Linux, Docker  
**Achievements** 2022 Putnam Math Contest Top 50%