JULIAN ZHANG

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EDUCATION

University of Waterloo (2024 - Present)
Bachelor of Computing and Financial Management (CFM)

University of Toronto Schools (2018 - 24)
Ontario Secondary Schools Diploma | Cumulative GPA: 4.0

EXPERIENCE

Oakville Centre For Vision - Software Engineer (2024 - Present)
- Created a web platform for eye-tracking goggles designed for analyzing patterns in pro athletes under the supervision of optometrist Dr. Ronald Gall
- Focused on data analysis of gaze vectors from tests aimed at identifying saccades and fixations
- Aided with the rewriting of legacy code databases with more than 8000+ lines

University of Toronto Clean Energy Lab - Research Assistant (2022 - 23)
- Used CGCNN (Crystal Graph Convolutional Neural Network) to examine trends in chemical properties
- Analyzed results and utilized them for material discovery aimed at producing cleaner energy to mitigate the effects of climate change
- Presented findings to Prof. Oleksandr Voznyy and PhD Students

Canadian National Debate Team - Member (2023 - 24)
- Selected as one of 12 debaters nationwide to represent Canada at the Belgrade World School Debating Championship (WSDC) 2024
- Compiled research in politics, IR, economics, and competed at international tournaments
- Hosted 5+ debate tournaments attracting over **500+ participants** and raising over **$10,000 for charity**

Side Projects
- SignWave: An AI Text-to-Sign Language Translator for the deaf (OpenCV, Flask, Mediapipe, Whisper)
- zhaju.github.io: My personal website / blog (HTML, JS, CSS, Quartz)
- MNIST Digit Classifier Neural Network (TensorFlow, PyTorch, Keras)

SELECTED AWARDS

- JamHacks VII (Largest Canadian HS hackathon) - **First Prize Overall, Best use of GitHub**
- American Invitational Math Exam (AIME) Qualifier **- Top 8% of Participants Worldwide**
- Canadian National BP Debate Championship 2023 **- 1st speaker and team**
- Hart House High Schools Tournament **- 1st speaker and team (record-breaking performance)**
- Munk Debates ReSolved Global Debate Competition - **Champion, received $5,000 prize**
- Harvard College World Schools Debate Invitational - **Best Finals Speaker**

SKILLS

- **Languages:** C++, C#, Java, Python, PyTorch, TensorFlow, HTML, JS, CSS
- **Developer Tools:** Git, GitHub, Conda, VsCode, PyCharm, CLion
- **Courses:** Supervised Machine Learning, Advanced Learning Algorithms, Unsupervised Learning
- **Certifications:** Bronze Star Lifeguarding, CPR A and B
- **Hobbies:** Cooking (waited tables + cashier at Ted's Restaurant), Boxing, Piano