# Brandon Li

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## Education

**University of Toronto** Toronto, ON
*Industrial Engineering (Bachelors of Applied Science) GPA: 3.68* *September 2024 – current*

## Experience

**STEM Instructor** July 2022 - August 2022
*Camp Green Acres* *Markham, ON*

- Supervised **150+ students** Grades 1-8 during classroom activities
- Educated students on STEM concepts such as physics and chemistry by creating educational projects
- Delivered lesson plans for **7+** groups of students every day through organization and planning

**Computer Science Club President** Sep. 2021 - July 2024
*Markham District High School* *Markham, ON*

- Provided mentorship to school community by organizing a panel of **5 university students**
- Mentored **40+ students** on computer science curricula such as data structures and algorithms
- Inspired students to pursue programming by leading them to create **4 programming projects**

## Projects

**EcoLocate** | *Python, TensorFlow, Node.js, Git, NumPy, MatPlotLib* January 2023 – current

- Developed an **AI** application that analyzes a location for optimal renewable energy extraction
- Implemented and trained satellite image segmentation models using **TensorFlow**
- Generated image masks from AI model outputs using **NumPy** and **Matplotlib**
- Trained custom image segmentation AI models with **Google Cloud Services**
- Integrated weather and satelite data through the use of **Google Maps** and **OpenWeatherMap APIs**
- Achieved **Top 5** at MacHacks 2023

**Murder Mystery** | *Spigot API, Java, Maven, Git* September 2023 – July 2024

- Programmed a Minecraft server plugin to teach club students about **Java** development
- Taught **OOP** and **Event-based programming** principles to **20+ students** grades 9 to 12

## Awards

**Top 4 UofT Engineering Kompetition** January 2025
*University of Toronto* *Toronto, ON*

- Lead the development of an earthquake response for reporting infrastructure damage using **Python**
- Rendered interactive maps through the implementation of **Folium** and Los Angeles **ArcGIS** data
- Collaborated and worked effectively within a team by leveraging version control through **Git** and **Github**
- Delivered a **15 minute technical pitch** about the capabilities of our product to a panel of judges

**Certificate of Distinction Waterloo Canadian Computing Competition** February 2024
*University of Waterloo* *Waterloo, ON*

- Ranked in the **top 800** contestants in the Senior Division by solving competitive programming problems
- Solved complex data structures and algorithms problems in **Java**
- Optimized algorithmic efficiency using Big O complexity analysis and Dynamic Programming principles

## Technical Skills

**Languages**: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS
**Frameworks**: Django, Node.js, React
**Developer Tools**: Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse
**Libraries**: TensorFlow, Folium, NumPy, Matplotlib