

# Tony Lee

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## EDUCATION

### Toronto Metropolitan University

*Bachelor of Science (Honours) in Computer Science*

Toronto, ON

Aug. 2024 – Aug. 2026

### York University

*Bachelor of Liberal Arts & Professional Studies in Information Technology*

Toronto, ON

Aug. 2022 – May 2024

## EXPERIENCE

### Outlier Remote Coding Expertise for AI Training

June 2024 – Present

*Outlier*

*Markham, ON*

- Delivered high-quality code contributions and expert insights to enhance AI models through advanced coding and data analysis techniques
- Identified and resolved coding challenges to optimize AI training processes, contributing to scalable, reliable model development

## PROJECTS

### MuseScapes | *Python, Express, React, PostgreSQL, Node*

- Developed a full-stack web application using Express to build a RESTful API, and React to deliver a dynamic, responsive frontend experience
- Utilized the Discogs API to integrate a database of 10,000+ songs with PostgreSQL, employing Pandas for efficient data manipulation and implementing CORS to enable seamless cross-origin data sharing
- Implemented secure user authentication using BCrypt and JWT with advanced salting techniques, ensuring safe data transfer and robust login security
- Optimized database query functions to quickly retrieve music records, significantly enhancing performance for users navigating large datasets

### Word Hunt Solver | *Python*

- Developed a Word Hunt solver in Python using trie traversal algorithms and optimized data structures such as tries and hash maps to enhance word lookup and pattern matching, improving solver speed for complex word puzzles by up to 30%
- Achieved high accuracy and performance, with the solver able to generate solutions for thousands of word combinations within milliseconds

### Space Invader | *Java*

- Developed a Space Invader clone in Java using OOP principles to create modular, maintainable code
- Implemented a collision detection system and game loop for smooth real-time gameplay, managing player movement, enemy behavior, and projectile handling.
- Designed retro-style graphics and sound effects to enhance the arcade experience while optimizing performance for different devices

### Password Strength Checker | *C++*

- Developed a password strength checker in C++, using string manipulation techniques to analyze password length and ensure the presence of lowercase, uppercase, digit, and special characters
- Implemented modular functions to break down checks for password complexity, improving readability and maintainability
- Designed the program to provide real-time feedback on password strength, helping users create stronger and more secure passwords

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, SQL, TypeScript, JavaScript, Golang, R, MATLAB, HTML/CSS

**Technologies:** React, Node.js, Express, Tailwind, PostgreSQL, Pandas, Angular, Git