

# Mouiz Ahmed

Toronto, ON | Software Developer Co-op

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## SKILLS

**Programming Languages:** Java, Python, HTML/CSS, JavaScript/TypeScript, SQL, C, C#, C++

**Tools & Frameworks:** React, NextJS, NodeJS, ExpressJS, Angular, jQuery, NoSQL, Distributed Systems, Microservices

**Cloud Computing:** AWS, Microsoft Azure, Firebase, Google Cloud Platform

**Development Processes:** Unit, Performance, Regression & Integration Testing, Agile, CI/CD, Git

## EDUCATION

**B.Eng Software Engineering Co-Op**

2020 – 2025 (Expected)

York University — Lassonde School of Engineering, Toronto, ON

## PROJECTS

**CatchGPT | AI Text Detection Application** [↗](#)

Mar. 2023

Web Application (Python, Flask, Hugging Face API, PyTorch, NumPy, HTML/CSS)

- A web tool that allows educators to determine if a piece of text was AI generated.
- Calculates the perplexity per sentence, and its variation (burstiness) using Hugging Faces pre-trained GPT2 model.
- Based on these parameters, it determines if the text was AI generated, partially AI generated, or entirely human made.
- Note\* Results may not be entirely accurate in determining AI generated text and should be used in a holistic approach.
- In the future, I plan on training my own model on various types of texts (Human/AI generated) for more accurate results.

**FlashStudy | Flashcard Study Application** [↗](#)

Jan. 2023 – Apr. 2023

Java Swing Application (Java, Maven, MVC Architecture, JDBC, MySQL, OpenAI-Davinci, CircleCI)

- A comprehensive flashcard study system to help users learn and retain information efficiently.
- Integrates AI using OpenAI's gpt-3.5-turbo model for definition autocompletion, fact check, and quiz question generation.
- Utilizes CircleCI to automate its build, test, and deployment processes (CI/CD).
- Followed the Agile methodology throughout its development lifecycle which led to improved workflow and delivery.
- Extensive JUnit testing and documentation that follow best practices and industry standards.

**Course Review Application** [↗](#)

Dec. 2022

Web Application (HTML, CSS, NodeJS, ExpressJS, ReactJS, MySQL)

- Each review is categorized by its school, faculty, course and professor which are stored within a MySQL database.
- Users can create an account to view and delete their posted reviews, implemented using JSON Web Token.

**ponderful. | Group Decisions Application** [↗](#)

Dec. 2022

Web Application (HTML, CSS, NodeJS, ExpressJS, ReactJS, MongoDB)

- Users can create a shareable unique session and generate a pool of options for their friends to pick from.
- Each session is uniquely identified by a UUID stored within MongoDB and linked to their corresponding option pool.
- The user picks between two options until a final selection is made followed by listing the popularity of everyone's votes.

## EXPERIENCE

**Academic Peer Support**

Sept. 2021 – Dec. 2021

York University — Lassonde School of Engineering, Toronto, CA

- Smoothly transitioned new students at York University through professional mentorship and leadership, resulting in higher engagement, satisfaction, and a sense of belonging on campus.
- Provided academic and mental health support through referrals to campus resources, improving academic performance by 25% compared to the previous year.
- Hosted community-building events and workshops, fostering social connections and improving overall mental health.