

Mouiz Ahmed | Software Engineering Co-op

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SKILLS

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

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

Cloud Computing: AWS, Microsoft Azure, Google Cloud Platform, Heroku

Development Processes: Unit, Performance & Integration Testing, CI/CD, Full-Stack, Agile, Documentation, 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

March 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 burstiness via Hugging Face's pre-trained GPT2 model.
- Based on these parameters, it determines if the text was, partially, or entirely AI generated.
- Note* Results may not be entirely accurate and should be used in a more holistic approach.
- *I plan on training my own model on various types of texts (Human/AI) for more accurate results.

FlashStudy | Flashcard Study Application

January 2023 – April 2023

Java Swing Application (Java, Maven, MVC Architecture, JDBC, MySQL, OpenAI API, 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 autocomplete, fact check, and quiz question generation.
- Utilizes CircleCI to automate its build, test, and deployment processes (CI/CD).
- Followed the Agile 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

December 2022

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

- Each review is categorized by its school, faculty, course and professor 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

December 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 option pool.
- Users pick between two options until a final selection is made followed by listing everyone's votes.

EXPERIENCE

Academic Peer Support

September 2021 – December 2021

York University – Lassonde School of Engineering, Toronto, ON

- 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.