

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++

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

Cloud Computing: AWS, Microsoft Azure, Google Cloud Platform

DevOps: Unit, Performance, Regression & Integration Testing, CI/CD, Agile, Git, Database Design

Soft Skills: Problem Solving, Organization, Communication, Data Analytics, Teamwork, Leadership

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, jQuery)

- A web tool that allows educators to determine if a piece of text was AI generated with 90% accuracy.
- 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.
- Provides text metrics and graphs for a holistic approach to plagiarism detection.

FlashStudy | Flashcard Study Application (Team Project)

January 2023 - April 2023

Java Swing Application (Java, Maven, MVC Architecture, JDBC, MySQL Database, OpenAI API, CircleCI)

- Collaborated with a team to create 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 Agile throughout its development lifecycle which led to an improved workflow and delivery.
- Extensive JUnit testing and documentation that follow best practices and industry standards.

Course Review Application

December 2022

Full-Stack Web Application (HTML, CSS, NodeJS, ExpressJS, ReactJS, MySQL Database)

- Users can create an account to view and delete their posted reviews, via JSON Web Token Authentication.
- Each review is categorized by its school, faculty, course and professor stored within a MySQL database.
- Designed a MySQL Schema and EER Diagram based on the application's requirements.

Ponderful. | Group Decisions Application

December 2022

Full-Stack Web Application (HTML, CSS, NodeJS, ExpressJS, ReactJS, MongoDB Database)

- 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.