Mouiz Ahmed

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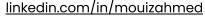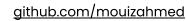
mouizahmed.com

SKILLS

Java | Python | HTML/CSS | JavaScript | SQL | C | C# | C++ | MATLAB | TypeScript | Git | ReactJS | NextJS | NodeJS | ExpressJS | React Native | MongoDB | Firebase | AWS | Bash/zsh | Agile | Linux | jQuery | VueJS | NoSQL | Azure | Cloud Computing | CI/CD | Unit Testing | Lambda | OOP | Microservices | Distributed Systems | Frontend | Backend | Full-Stack

EDUCATION

B.Eng Software Engineering Co-Op   09.2020 – Present
York University — Lassonde School of Engineering, Toronto, CA

PROJECTS

Course Review Application   **View Project**
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   **View Project**
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.

CatchGPT | AI Text Detection Application   **View Project**
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   **View Project**
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.
- Utilized CircleCI to automate its build, test, and deployment processes (CI/CD).
- Implemented 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.

EXPERIENCE

Academic Peer Support   09.2021 – 12.2021
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.