

Mohsin Rehman

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Education

Ontario Tech University

September 2020 – April 2024

Bachelor of Engineering - Software Engineering - GPA: 3.54

Oshawa, ON

- **Relevant Coursework:** Intro to AI, Web Programming, OOP, Operating Systems, Data Structures and Algorithms
- **Awards:** Presidents List x2, Dean's List

Technical Skills

Languages: Java, JavaScript, Python3, C/C++, PHP, HTML5/CSS, SQL, CShell, Bash

Frameworks: Express.js, React, Tailwind, Bootstrap

Technologies: Node.js, REST APIs, MySQL, MongoDB, Git

DevOps: Docker, Kubernetes, Google Cloud

Projects

[SocialMo](#) | *React, MongoDB, Express.js, Node.js, Socket IO*

- Developed a responsive **Full stack Social Media** Application which implemented an authentication system, and built Home, Messenger and Profile Pages.
- Added the ability to post images, update user profile information, and **real-time chatting between users**.

[SimplifAI'd](#) | *React.js, Vite.js, OpenAI, RapidAPI, Tailwind CSS*

- Engineered a dynamic web application that enables users to input a URL of an article and generate a concise summary for improved comprehension.
- Leveraged **OpenAI's GPT-4 Model** and utilized RapidAPI's web scraper to extract relevant information and generated accurate article summaries.

[Algovisualizer](#) | *React.js, Node.js, Express.js*

- Created a Web application for visualizing a variety of algorithms including Sorting, Pathing, and CPU Scheduling algorithms.
- Implemented interactive features, allowing users to adjust animation speed and dataset size for a more comprehensive understanding of algorithmic behavior.

[Kentrell's Bookstore](#) | *React, Node.js, Express.js, SQL, Bootstrap CSS*

- Collaborated with a team of 5 as a full stack developer to create a local e-commerce application
- Implemented user registration, login, shopping cart functionality, and book selection, ensuring a seamless user experience for book purchases which led to a final grade of **100%**.

[Content Based Image Retrieval](#) | *Python, NumPy*

- Led a team of 3 in the development of a Python application that converts black and white images into projections using angled projections.
- Implemented a search functionality to analyze a dataset of 100 images and identify the most similar image with an accuracy rate **> 60%**.
- Conducted an in-depth analysis of the data structures and algorithms utilized in the application.
- Authored a research report highlighting the implementation details and performance analysis, resulting in a grade of **100%**.

Experience

Decent Marble

May 2021 – November 2021

Data Administrator

Toronto, ON

- Implemented and developed database designs incorporating data models to monitor inventory, sales, and statistics for **\$130,000** annual revenue business.
- Tested programs and databases to identify issues and make necessary modifications.
- Communicated with stakeholders to define problem areas with operations and created custom solutions to address future growth and scalability of business operations.