

Khaled Elgohary

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Education

Bachelor of Science, *University of Manitoba*
Major: Computer Science | Minor: Mathematics

09/2019 – 07/2024
Winnipeg, Canada

Skills

Back-end

Python, Java, C/C++, Android Studio, SQL, NoSQL, GraphQL, PostgreSQL

Data Analysis

Numpy, RStudio, Excel VBA, Tableau, Jupyter, Power BI

Front-end

JavaScript, HTML, CSS, JQuery, Flask, React.js, Next.js

Tools and Testing

Git, Linux, CI/CD, Docker, Spring Boot, Mockito, JUnit, Espresso, Selenium, Cypress

Work Experience

Caremate, Full-stack developer

- Improved front-end performance and user experience by optimizing code and implementing best practices in React with Next.js.
- Implemented robust end-to-end testing protocols using Cypress and Selenium, contributing to a 20% decrease in post-launch support tickets.
- Utilized AWS Elastic Beanstalk to deploy and manage web application.

05/2024 – present
Winnipeg, Canada

Pacific Institute for The Mathematical Sciences, Data Analyst

- Utilized R for intricate data visualization and analysis, emphasizing complex histograms to establish relationships and similarities in collected data, showcasing high statistical proficiency.
- Employed Python and Numpy for data collection and manipulation.
- Created research reports using LaTeX, utilizing LaTeX's Mathematical notation capabilities.

10/2022 – 04/2023
Winnipeg, Canada

Projects

Canadian Museum for human rights speech-to-text system, Python, Docker, Whisper API, CI/CD

- Leading a team of three students at the University of Manitoba for implementing a speech recognition system at the Canadian Museum for Human Rights.
- Utilizing OpenAI Whisper library for enhanced performance and Docker for application containerization.
- Actively researched the implementation of Cree and other indigenous languages into the language model for cultural inclusivity.
- Utilized Bidirectional Encoder Representations from Transformers (BERT) to train a model with 12 custom intents, achieving 90% accuracy with limited data.

HighSchool Hub, Android Studio, Java, Mockito, JUnit, Espresso

- Developed user-friendly features using Android Studio, by ensuring continuous backend with frontend, along with 100% test coverage.
- Helped Implement a MySQL database integration, elevating app's functionality and providing a captivating interactive experience for users.
- Contributed to code reviews, approving merge requests, and also contributed to clearing technical debt.

El-opie Web Scraping website, Python, Flask, Selenium, HTML/CSS, SQL

- Collaborated with an agile team in a university hackathon to create a website for scraping transfer course data, benefiting University of Manitoba students across all programs, and reducing manual course search time by 60%.
- Utilized Flask, HTML/CSS for creating Website, SQL for storing scraped data, and Selenium for data scraping.
- Achieved 2nd place out of 77 competing computer science student groups.

Julisn Website, JavaScript, HTML/CSS, jQuery, Bootstrap

- Collaborated in a student team to design an innovative website inspired by Spotify for music and multimedia, achieving top 5% of the class.
- Executed front-end development with HTML, CSS, and jQuery, while ensuring cross-browser compatibility and mobile responsiveness.
- Utilized Bootstrap and jQuery for creating visually appealing animations within the website.

USA Flights Database, Java, MySQL

- Transformed a vast US flight dataset of 5+ million records into an efficient Microsoft SQL Server database and seamlessly integrated it with a Java application.
- Optimized queries for speed to ensure swift and efficient data retrieval, complemented by a user-friendly command-line interface for enhanced research and analysis accessibility.