Youssef Mohamed

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WORK EXPERIENCE

Undergrad Research Assistant – RAnLab   Sept. 2021 – Aug. 2022
- Collected and analyzed 5,000+ data points from Statistics Canada API, utilizing Office JavaScript API in Excel to enhance a centralized database and support research objectives.

Volunteer Full-Stack Developer – NLeats   May 2020 – December 2020
- Developed a responsive web interface with React, resulting in a 20% increase in user engagement and satisfaction.
- Optimized data storage and retrieval processes by helping to design an efficient database schema, reducing data processing time by 15%.

PROJECTS

HeartDiseasePrediction - Team Project   Oct. 2022 – Dec. 2022
- Applied ML techniques to analyze raw medical data, achieving 85% prediction accuracy. Evaluated data scaling techniques and implemented effective methods to handle missing data and outliers, enhancing data quality and project integrity.

Quotes – Solo Project – Mobile App   July 2021 – Sept. 2021
- This mobile application provides users with a pool of quotes, allowing them to add and remove quotes from their list and share them with others.
- Created a user-friendly mobile application using React Native, delivering an engaging user experience.
- Utilized AWS service, including EC2, API Gateway, Lambda, DynamoDB, Cognito for scalable, secure, and seamless data management.

FadfadA – Solo Project – Web App   Aug. 2020 – Feb. 2021
- A web application enabling users to engage in public chat rooms while facilitating private messaging within the group.
- Utilized React and Socket.IO to create an interactive user interface, enhancing the overall user experience and promoting real-time communication.

MyFlex – Team Project – Web App   June 2020 – July 2020
- This web application intends to help you decide what movie to watch next with a recommendation feature and movie tracking system to enhance your viewing experience.
- Utilized React to create a seamless and intuitive user interface, delivering an exceptional user experience.
- Developed a robust backend using Node.js and Express, ensuring efficient data retrieval and seamless communication between the frontend and the database.
- Leveraged MongoDB to establish a reliable and scalable database system for efficient storage and retrieval of movie-related data with a 25% improvement in data access performance.

EDUCATION
- B.S. in Computer Science, Memorial University of Newfoundland   Sept. 2019 – Dec. 2022

SKILLS
- **Proficient in:** React - Redux - JS - Express.js - Node.js - MongoDB - HTML/CSS - Version Control
- **Experience in:** REST APIs - Mocha - React Native - Python (pandas, NumPy, matplotlib, scikit-learn) - AWS (EC2, API Gateway, Lambda, DynamoDB, Cognito) - WordPress.