Abu Sayeed Khan

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EDUCATION AND TRAINING

Bachelor of Science in Computer Science   Summer 2023
University of Manitoba
Relevant Courses:
- Database Implementation I and II
- Basic Statistical Analysis I and II
- Introduction to Probability
- Statistics & Computing
- Data Mining
- Project Management
- Data Science

SKILLS AND KNOWLEDGE

- Python
- R
- C++
- C#
- Java
- React

- JavaScript
- NodeJS
- Eclipse
- Unity
- SQL
- NoSQL

- Excel
- Database Management
- Statistical Analysis
- Data Mining
- Jenkins

- GitHub Action
- Docker

RELEVANT PROJECT

Microsoft Dotnet/Runtime   Aug 2023 – Current
Opensource project contribution
- Identified a critical problem causing the software to shut down unexpectedly when certain internal checks were turned off.
- Proposed a safety net within the code to prevent these unexpected shutdowns.
- Implemented the safety measures by making selective changes to the code that would alert developers to the problem before it could cause a crash.
- Achieved a more stable and reliable software experience by eliminating the issue that was causing unexpected shutdowns.

Celestia celestiaApp   Aug 2023 – Current
Opensource project contribution
- Found documentation bugs after new codes were updated.
- Communicated with the codebase maintainers and fixed multiple documentation error.
- Helped other opensource contributors to prevent repeated mistakes which reduced development time.
- Awarded Celestiaorg's 2023 Celestia Contributor badge for the contribution.

Dawat-e-Islami_Manitoba, a community-based website (Link)   Aug 2022 – Sep 2022
Community project contribution
- Utilized Google Sheets as a database through AppScript to store user information, demonstrating a strong understanding of data analytics and the ability to connect data with real-world operations.
- Employed a tech stack including JavaScript, CSS, HTML, and Bootstrap to build a comprehensive website, showcasing advanced skills in various tools.
- Integrated various APIs to provide accurate prayer, sunset, and sunrise times, highlighting the ability to work with product and data analytics to offer real-time insights.
- The project served as a one-stop resource for the Dawat-e-Islami Manitoba community, indicating the capability to work closely with cross-functional teams to develop short, medium, and long-term strategies for community-related opportunities.
- Ensured the accuracy and reliability of all user and time-related data, showcasing strong reporting skills and the ability to disseminate significant amounts of information with attention to detail and accuracy.

Study Buddy, A web-based student scheduler   Jan 2022 – May 2022
Opensource project contribution
- Tech Used: React, Express, MongoDB, NodeJS, JavaScript, Tailwind CSS, Auth0, Password Tokenizer
- Planned, managed, and distributed development tasks to a team of 4 people remotely. Created user stories and maintained the codebase with Agile Architecture.
- Used CI/CD tool Jenkins and GitHub Action, to automate the deployment cycle and integrated continuous testing before each pull request is accepted.

Game Rating System, Android App (Link)   May 2021 – Aug 2021
Software Engineering Project, University of Manitoba
- Conducted research to find user requirements and used constructive feedbacks to create high level user stories.
- Done unit tests, integration tests, system tests and acceptance tests with Junit in every milestone to ensure code quality. Maintained 100% code coverage for every module tested.
- Used Eclipse as an IDE to help with testing to deployment of the code.

Analysis of Female Educational Impact in different Region in India   Jan 2021 – May 2021
Data Science Research, University of Manitoba
- Used Python's Beautiful Soup to collect data across India, cleaned the data using regex and segmented it geographically, leading to significant regional insights.
- Designed MySQL database using agile database methodology. Operated the database to effectively to analyze data.
- Built Entity-Relationship Diagram (ERDs), to conceptualize the database design. Used Apache server to host the database.
- Employed SQL queries for precise data extraction, allowing for a comprehensive analysis of parameters like GDP and birth rate.
- Utilized Microsoft Excel for quantitative analysis, discovering unexpected trends in female education across regions.
- Generated reports, highlighting the weaker correlation between GDP and female education and observed surprising growth in northern regions.

Prediction of Fake News using Linguistic Model   Sep 2021 – Dec 2021
Data Mining Research, University of Manitoba
- Successfully worked with a comprehensive dataset to differentiate real from fake news, utilizing advanced data mining approaches and artificial intelligence. Applied data preprocessing, segmentation, and merging techniques to streamline the analytical process, showcasing proficiency in data models and database design.
- Leveraged NLP (Natural Language Processing) features (e.g., n-grams, stemming, term frequency) to design logistic regression classifier with up to 95% accuracy in news validation.
- Learned new tools and domains of data science to implement advanced feature extraction techniques (e.g., Count Vectorizer, TF-IDF).
- Systematically visualized the entire analytical workflow, from raw datasets through preprocessing, feature extraction, and text classification to the final prediction model. Displayed adeptness in queries, crafting insightful reports, and presenting research findings.

WORK EXPERIENCE

Customer Service Representative   Jan 2020 – Feb 2021
Walmart, Lakewood, Winnipeg
- Regularly engaged with a diverse clientele at Walmart's self-checkout, swiftly identifying and addressing individual needs, ensuring satisfaction and smooth purchase experiences.
- Ensured customer satisfaction by leveraging exceptional communication skills, actively listening to concerns, and providing timely and effective solutions.
- Partnered with fellow associates to coordinate efforts, reducing customer wait times and enhancing the overall service experience, fostering an environment of teamwork and collective responsibility.
- Strategically prioritized customer assistance based on urgency and need, effectively balancing multiple responsibilities to ensure optimal operational efficiency and customer satisfaction.
- Skillfully handled challenging customer situations employing effective de-escalation techniques to ensure a positive resolution and maintain a calm and welcoming store environment.

NOTABLE ACHIEVEMENT

- **University of Manitoba annual programming contest:** 7th place.
- **Dean's Honour List:** University of Manitoba, North South University
- **North South University national robotics contest:** 16th place.
- **National programming contest Bangladesh:** 37th place.
- **Codeforces highest ranking:** 1404
- **Related Certifications:**
    - IBM: Introduction to DevOps
    - IBM: Introduction to Test Driven Development