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Md. Hosne Al Walid Shaiket

CONTACT INFORMATION

820, 77 University Crescent
Winnipeg, MB R3T 3N8, Canada.
LinkedIn: https://bit.ly/3nPJSSj

E-mail1: walid.iut06@gmail.com
Phone: +1(431) 275 9988

PERSONAL WEBSITE https://walid-shaiket.github.io/

GOOGLE SCHOLAR http://bit.ly/2JUpmMv

RESEARCHGATE https://bit.ly/336K8Sb

PROFILE SUMMARY

- A Business Intelligence Developer at the B.C. Ministry of Health with a Master of Science (M.Sc.) degree (to be completed by Jan 2022) in Computer Science from the University of Manitoba, Winnipeg, Canada.
- Around 02 years of industry/government experience in Data Science, Business Intelligence, and Healthcare Analytics along with demonstrated history of working in the software and healthcare data analytics industry.
- Extensive knowledge of SQL, ETL Process, Data warehousing, building OLAP cube, Microsoft SQL server stack (SSAS, SSIS, SSRS), and Visualization in Power BI and Tableau.
- Expert in the areas of analysis, validation, and documentation of business, organizational and operational requirements utilizing Use Case approach, UML modeling techniques and Agile methodologies (RUP and SCRUM).
- Diversified experience handling Business Process Mapping, System Analysis as well as Business Process Improvement initiatives using UML/BPMN in various methodologies SDLC, Waterfall, AGILE and SCRUM, and in-depth understanding of Software Development Life Cycle (SDLC).
- Proficient in creating Business Requirement Documents (BRD), Functional Specification Documents (FSD), Wireframes and Prototypes using UML standard.
- Excellent communicator with proven expertise in relating effectively with stakeholders, strong presentation, analytical, interpersonal, and organizational skills.

SKILLS

- **Programming and Scripting Languages**: Android, C, C++, C-sharp, Data Analysis eXpressions (DAX), HTML, Java Script, Power Query (M), Python, PL/SQL, PHP, R.
- **Tools**: Power BI, Microsoft BI stack (SSAS, SSIS, SSRS), SPSS, Tableau, MATLAB, OpenCV, CVIP, Unity.

PROFESSIONAL EXPERIENCE

- **Business Intelligence Analyst (auxiliary appointment)** **June, 2020 to Present**
  Health Sector Information, Analysis and Reporting Division (HSIAR)
  Ministry of Health, Govt. of British Columbia, Victoria, BC, Canada.

List of major projects I worked on with B.C. Government (Jun 2020 - Dec 2021):

1. **British Columbia COVID-19 Daily Cases:** This BI report contains a breakdown of daily COVID-19 cases reported by the BC Centre for Disease Control (BCCDC). It also comprises positive cases, hospitalizations, deaths, laboratory tests, breakthrough analysis by vaccination status, and time-series information for all geography levels.

2. **Daily Monitoring Dashboard for COVID-19 Sites:** This BI report provides breakdowns of COVID-19 immunizations for the B.C. population.

3. **British Columbia Emergency Departments:** This BI report provides an overview of ED visits, including patient demographics and wait times as compared to benchmarks set by the Canadian Association of Emergency Physicians.

4. **British Columbia Surgical Wait Times:** This BI report allows users to monitor access to surgeries by reviewing surgical indicators.

5. **Mental Health and Substance Use Service:** The Mental Health and Substance Use Service, 2018/19 BI report consists of 11 measures. These measures are reported by sex, age group, health condition, geographic location, and service type (community data only) on an annual basis starting with fiscal year 2018/19.

6. **Analysis and Visualization of Patient-Centred Measurement Data:** In this project, I worked on the Emergency Department (ED) survey to show results from a range of survey questions that provides patients' perspectives on the quality of patient care in emergency departments in the province of British Columbia.

7. **National Health Expenditures:** This BI report visualizes the full National Health Expenditure (NHEX) dataset from the Canadian Institute of Health Information (CIHI), providing a way to quickly search the full data tables and look at health spending trends from 1975 - 2021.

8. **British Columbia Virtual Care Physician dashboard:** This BI report focuses on the physician provision of virtual care. It summarizes the changes around, and impact of, virtual care before, during, and after the COVID-19 pandemic. It provides quantifiable information on the provision and impact of virtual care on the health system of B.C.

Development Tools and Languages: SQL, DAX, Power Query (M), R, Power BI, Visual Studio (to build tabular model for Analysis Services), Tabular Editor, and SQL Server Management Studio (to deploy and managing access to tabular models in Analysis Services).

- **Assistant Professor** **April 2016 – August 2019 (03 years 04 months)**
  Ahsanullah University of Science and Technology, Dhaka, Bangladesh.
  Department of Computer Science and Engineering.

  Job description: Taking the theory and Lab classes, checking the assignments and final scripts, organizing workshops and seminars on latest research topics, and conducting undergraduate level research and new curriculum design for academic improvement of the University.

- **Lecturer** **October 2012 – April 2016 (3 years 6 months)**
  Ahsanullah University of Science and Technology, Dhaka, Bangladesh.
  Department of Computer Science and Engineering.
  Job description: Taking the theory and Lab classes, checking the assignments and final scripts, and conducting undergraduate level research and new curriculum design for academic improvement of the University.

- **Lecturer** **May 2011 – September 2012 (1 year 04 months)**
  Primeasia University, Dhaka, Bangladesh.
  Department of Computer science and Engineering.
  Job description: Taking the theory and Lab classes, checking the assignments and final scripts, conducting undergraduate level research and new curriculum design for academic improvement of the University.

- **Software Engineering Intern** **September 2009 – December 2009 (04 months)**
  Systech Digital LTD, Dhaka, Bangladesh.
  Job description: Design and development of a large web based portal using CodeIgniter web framework and other Web based applications in PHP.

Education

- **M.Sc. (to be completed by Jan 2022) in Computer Science** September 2019 to Present
  University of Manitoba, Winnipeg, Canada (**CGPA 4.20/4.50**)
  Specialization: **Data Science, Business Intelligence, and Health Analytics**

- **B.Sc. in Computer Science and Information Technology** 2006 – 2010
  Islamic University of Technology (IUT), Dhaka. Bangladesh (**CGPA 3.89/4.0**)
  Merit Position: **in the top 9% of graduating class**
  Specialization: **Digital Image Processing, Machine Learning**

Awards and Scholarships (selected)

1. University of Manitoba Graduate Fellowship (UMGF), 2019-2021
2. International Graduate students Entrance Scholarship (IGSES), University of Manitoba, 2019
3. NSERC CREATE (VADA) Fellowship for Educational Purpose, (2019-2020)
4. OIC Merit Scholarship during Undergraduate studies, 2007-2010.
5. Dhaka Education Board Merit Scholarship based on Higher Secondary exam result, 2006.

Academic Research Projects (selected):

1. **COVID-19 Disease Tracking:** In this project, I developed an MVP mobile application for disease tracking during COVID-19 for both Android and iPhone. We explored the possibility to use technology to contain highly infectious diseases through GPS data sharing.

   Programming platform and Tools: Android, Dart (Flutter).

2. **In-situation 3D Data visualization and Interaction using a smart wearable ring:** In this project, we developed a prototype where we were interested to interact and answer some complex queries from a 3D visualization using a smart wearable ring.

   Programming platform and Tools: C#, Unity.

3. **Chronic Kidney disease (CKD) Classification from real-life clinical data:** This is an individual project under NSERC VADA program where I completed a data science project which includes: I) Data Management Plan, Data dictionary, and Data Quality Report of CKD data set (II) Analysis which includes Cluster analysis, Regression, Classification and Dimension reduction, and (III) Visualization of useful insights using Tableau.

Programming platform and Tools: R, Python, and Tableau.

4. **Visualizing Interesting Association Rules from COVID-19 Datasets:** This project involves applying data mining techniques on COVID-19 data to extract association rules and visualize these rules as a network. We explore the use of association rule networks, where association rules are represented as nodes with edges connecting to items within the rule as a method to extract interesting patterns within a variety of COVID-19 datasets.

   Programming platform and Tools: Python, Jupyter Notebook.

5. **Custom Selectable Text Widget for Controlled Text Selection in Mobile device:** In this course project I focused on text selection and layout, where I developed a customized text selection widget which will offer additional functionality in addition to what generally comes with default text selection widget in most of the mobile apps.

   Programming platform: Android, Dart (Flutter).

Selected Publications

Published Journals: Total 08
Conference Proceedings: Total 02
Please visit my Google Scholar profile for full list.

References

- **Reference available upon request**