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CONTACT INFORMATION

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RESEARCH INTERESTS

Data Science, Business Intelligence, Healthcare Analytics, and Information Visualization.

EDUCATION

- **M.Sc. (on going) 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

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.

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, MS SQL server stack (SSAS, SSIS, SSRS), Tableau, MATLAB, OpenCV, CVIP, CISCO Packet Tracer, Unity.

PROFESSIONAL EXPERIENCE

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

  List of major projects I worked on in B.C. Government:

  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, 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. The report allows data exploration by geography, age group, and select priority populations.

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. The purpose of this report is to provide an overview of where EDs are experiencing congestion and capacity issues over time and across triage levels.

4. **British Columbia Surgical Wait Times:** This BI report allows users to monitor access to surgeries by reviewing surgical indicators. For specific procedures, specialities, ages or geographies, filter the data to determine if demand is outpacing supply, if the number of cases waiting is increasing or if wait times are increasing.

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**: Qualitative analysis and Semantic layer design for the Patient-Centered Measurement (PCM) data to support performance management analytic for the province of British Columbia.

Development Tools and Languages: SQL, DAX, Power Query (M), R, Power BI, Visual Studio (to build tabular model for Analysis Services), 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.

Other research Projects:

1. **COVID-19 Disease Tracking:** In this project, As a member of the development team, 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. And our results show that people are, very often, willing to share their GPS data in an effort to contain highly infectious diseases such as COVID-19, as long as their privacy is protected. Our conclusion indicates the great potential to use novel approaches to tackle highly infectious diseases such as COVID-19.

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

2. **In-situation 3D Data visualization and Interaction using a smart wearable ring:** Wearable technologies, such as watches, rings, and head-worn displays (HWDs) are becoming commonplace nowadays. In this project, we tried to develop a prototype where we are interested to interact and answer some complex queries from a 3D visualization using a smart wearable ring. The main objective was to design some complex and accurate interactions which include analyzing a data set after visualization, perform different actions like selecting, finding patterns, answering some important questions, revealing better insight from a 3D visualization.

   Programming platform and Tools: C#, Unity.

3. **Chronic Kidney disease (CKD) Classification from real-life clinical data:** This is an individual project under the Visual and Automated Disease Analytics (VADA) program which is a graduate-level seminar course. This program is a joint initiative between the University of Manitoba and the University of Victoria. As a part of this program, 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.

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

4. **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. My developed widget will give users more control over text selection and layout than the default one. The solution is initially designed for Text selection and layout on mobile devices.

   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**