

Host Organization

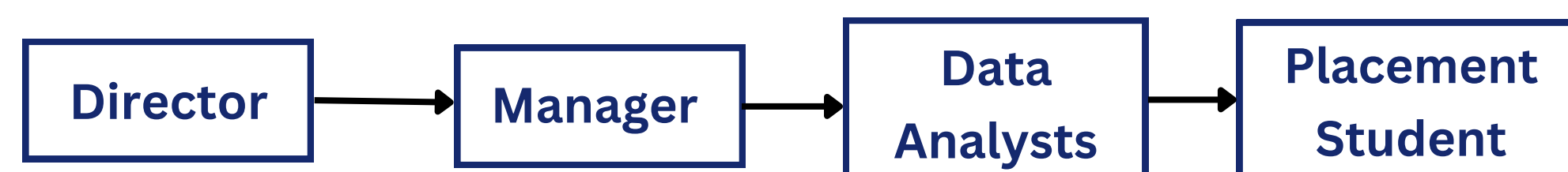
Scarborough Health Network (SHN) includes three hospitals and nine satellite sites

- Five at Birchmount
- Four at Centenary
- Serves Canada's most vibrant and diverse communities
- **Mission:** Improving lives through exceptional care
- **Vision:** Canada's leading community teaching health network - transforming your health experience
- **Values:** Compassionate, inclusive, courageous, innovative
- Strategic goal to transform the patient experience through innovation, education, and research



Scarborough Health Network Centenary Hospital

Role in the Organization



Organizational hierarchy of EA department

Enterprise Analytics (EA) department works on:

- Extracting data from EPIC to data warehouse
- Analysis of data to drive business strategies
- Summarizing data into dashboards and scorecards
- Data management
- Using models to forecast and support business decisions

My role:

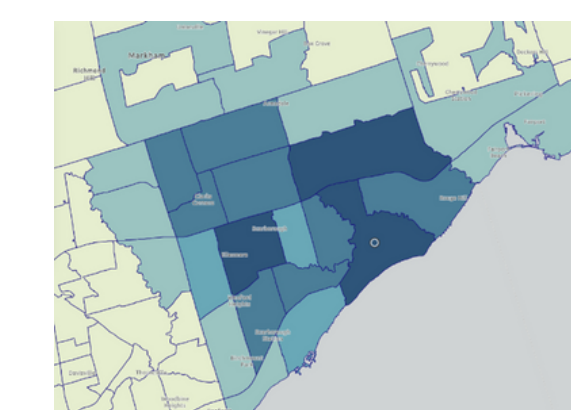
- Worked with the Project Management and Improvement (PMI) team to create a dashboard
- Used SQL programming language to extract data for analysis
- Reported to manager of department

Overview of Projects

Project/ Task	Brief Description
Health Equity Survey	<ul style="list-style-type: none"> • Reviewed survey data collected from September 2022 to January 2023 • Cleaned up imperfect data by performing data validation • Analyzed quantitative data in excel and presented findings
2021 Census Data	<ul style="list-style-type: none"> • Reviewed census population data of neighbourhoods • Used ArcGIS, a geographic information system (GIS) software to display data on a map • Performed Geomapping, the analysis of data presented on a geographical map • Formatted excel data to be imported to ArcGIS
Project Management and Improvement	<ul style="list-style-type: none"> • Designed a dashboard to track the progress of all projects • Built a data entry point for the management of existing projects • Completed project through the process of using SharePoint, Power Apps, and Power BI
Analytics	<ul style="list-style-type: none"> • Learned about the Discharge Abstract Database (DAD) and National Ambulatory Care Reporting System (NACRS) datasets • Extracted data from MySQL (Structured Query Language) to analyze • Performed analysis by creating visualizations in Power BI to communicate findings using the programming language DAX
EPIC	<ul style="list-style-type: none"> • Worked with EPIC, an electronic health records software • Used different elements within EPIC to analyze patient data • Watched videos introducing how to perform different functions in EPIC

Impact to Organization

- Reduced time required for PMI consultants to update project status, providing them time to prioritize other work
- Created power automate flow to automate the refresh of dashboard to make updating time efficient
- Improved process to monitor strategic management of projects within all programs



Geomap using ArcGIS



Main Screen of PMI Data Entry

Reflection

- Most valuable experience as a student at York University
- Gave me opportunities to:
 - Work with real world data
 - Develop my programming and analytic skills
 - Be exposed to and work with new softwares
 - Learn new technical skills
 - Collaborate with others on projects and build relationship
 - Attend weekly team meetings
 - Watch the presentation of monthly program reports
 - Attend a Medicine PLC meeting
- Improved my communication skills and helped build my confidence
- Exposed me to a possible career path

Advice to Future Students

- Ask questions to learn and receive feedback
- Manage your time to make the most of your experience
- Take the initiative to take on tasks and be open to new opportunities