

SAMI ELKHAYRI

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SUMMARY

A creative problem-solver and detail-oriented Data Professional with a background in Engineering and Computer Science. Earned a certificate from University of Toronto's Data Analytics and Visualization Boot Camp. Unquenchable desire and drive to extract meaningful insights from large sets of structured, semi-structured, and raw data. Team-oriented individual with strengths in analytical problem solving and collaborating across diverse groups.

TECHNICAL SKILLS

Languages: SQL, Python, Java, R, HTML5, CSS, Bash, XML, XSLT, JavaScript ES6+, VBA, NoSQL

Operating Systems: Linux, Windows, Macintosh

Databases: Oracle, SQLServer, PostgreSQL, Sqlite, MySQL, MongoDB

Applications: Git, Flask, Visual Studio Code, Excel, Jupyter Notebook

Libraries: seaborn, scikit learn, tensorflow, pandas, sqlalchemy, splinter, beautifulsoup4

PROJECTS

COVID – WHAT? | <https://github.com/pmmfs/capstone-project> | <https://pmmfs.github.io/>

Team Project. A machine learning project that focused on COVID-19. The project showcased predicted numbers of cases and deaths (using supervised machine learning) and evaluated government measures to prevent the spread of COVID. Heatmap correlations and unsupervised machine learning were used to detect trends between country characteristics, government measures, and numbers of cases and deaths.

- Role: Supervised Machine Learning
- Tools: Python, Pandas, NumPy, TensorFlow Neural Networks, Random Forest, JavaScript, Bootstrap, CSS, SQLAlchemy, Scikit Learn, Matplotlib, Re, Leaflet, Plotly.js

Belly Button Biodiversity | https://github.com/selkhayri/Belly_Button_Biodiversity | https://selkhayri.github.io/Belly_Button_Biodiversity/

An interactive dashboard to display the belly button bacteria information, both textually and graphically, of an individual who is selected from a drop-down.

- Role: Sole author
- Tools: HTML, JavaScript, D3.js, Plotly.js, Bootstrap, CSS

Mission to Mars | https://github.com/selkhayri/Mission_to_Mars

The aim of this project is to scrape the NASA news site to retrieve the communication thread between earth and the Mars Rover and to display the scraped information.

- Role: Sole author
- Tools: Python, Jupyter Notebook, web-scraping, beautifulsoup4, splinter

WORK EXPERIENCE

IT Developer II

2017 – 2019

TD Canada Trust

- Created SQL scripts to generate system usage reports for finance
- Documented problem troubleshooting steps to Confluence
- Mentored co-op students
- Developed a Java-based report generator
- Supported the deployment of web services
- Earned a recognition award for excellent support

Senior Software Developer

2009 - 2016

Finastra (formerly Davis + Henderson)

- Developed web services using the IBM Datapower ESB.
- Maintained and made minor changes and updates to the legacy products.
- Programmed various applications such as fat clients and websites
- Kept current with and applied new technologies such as XSLT and IBM's Datapower ESB to my work which allowed old and obsolete hardware to be decommissioned.
- Supported the succession planning effort by hosting periodic knowledge transfer sessions which enabled others to support my products if necessary.
- Uploaded source code which was stored on remote server to Subversion which made code changes more trackable and reversible.
- Improved the design and functionality of web applications by removing unnecessary functions that served no real purpose.
- Gathered all the connectivity documentation which was scattered over several systems such as Microsoft Sharepoint and wiki and uploaded them to Subversion for quicker access and better version control.
- Ensured reachability during vacations, such that customer service level agreements (SLA's) were never violated.

EDUCATION

Certificate, Data Analytics

University of Toronto

Toronto, Canada

Bachelor of Science, Computer Science

Western University

London, Canada

Bachelor of Engineering Science, Mechanical

Western University

London, Canada