

# Omar Syed . Jarvis Consulting

I, Omar Syed, graduated from Ryerson University with a Bachelor's of Science (Honors) degree in Computer Science and a minor in Finance. During this time, I gathered project experience with a large variety of software tools and programming languages such as, Python, Java, PHP, C/C++, HTML/CSS, JavaScript, SQL, Prolog, MATLAB and much more. In university, I focused my last two year course load towards Data related courses, most notable being, Data Structures, Algorithms, Database Systems, Probability and Statistics and Data Mining. With a vast amount of experience in group projects, I learned how to effectively collaborate and efficiently lead my team to the desired goals. I joined Jarvis Consulting in July, two weeks after graduation. At Jarvis I worked on projects providing me with experience and a strong understanding of the related topics, such as Computer Networks, Docker and containers, Linux bash scripting, PostgreSQL, DDL, Python Data Analytics, Pandas/Numpy, Data Warehouse and more. Along with extensive technical experience, Jarvis also provided me with experience working under an Agile framework, helping me to better work as a team. The software and data industries excite me most for one simple reason, the extent of its reach and effect on our real and virtual world. The possibilities are endless and so are the opportunities.

## Skills

**Proficient:** Python/Pandas/NumPy/Scikit-Learn, Java, Spyder, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git

**Competent:** Object Oriented Programming, MATLAB, HTML/CSS, Visual Studio, Docker, Oracle SQL, JavaScript, C++

**Familiar:** ZenHub, Hadoop/Hive, PHP, yaml, Tableau, Google Cloud

## Jarvis Projects

Project source code: [https://github.com/jarviscanada/jarvis\\_data\\_eng\\_OmarSyed](https://github.com/jarviscanada/jarvis_data_eng_OmarSyed)

**Cluster Monitor** [GitHub]: Developed an application to collect and send real time resource usage data as well as hardware specifications on the Linux host to a PostgreSQL Database. Application system is built on Linux using bash scripts and SQL, while docker is used to manage the container the application runs on. Crontab is used to automate the collection of the real time usage data.

**Python Data Analytics** [GitHub]: Analyzed a company's customer transaction histories in order to gain an insight to customer behavior for the purpose of better marketing strategies. Setup a data warehouse using SQL on the Jarvis Docker Container and populated it using the provided CSV file of customer transaction histories. Implemented Python Scripts using the Pandas and NumPy libraries for performing data analytics. Analyzed customer behavior and noted points of improvements for the marketing team. Recorded and documented the Python script using Jupyter Notebook

**Hadoop** [GitHub]: Processed data using big data tools such as Apache Hadoop to evaluate core Hadoop components such as HDFS, YARN, and MapReduce. Hadoop clustering was provisioned using Google Cloud with the use of 1 master node and 2 worker nodes. Data was queried to answer business questions using Apache Hive and Zeppelin Notebook.

**Spark** [GitHub]: Not Started

**Cloud/DevOps** [GitHub]: Not Started

## Highlighted Projects

**Data Mining Association Analysis** [GitHub]: Implemented Association analysis using Python to a dataset, provided as a CSV file, of customer transaction histories in order to use machine learning for relational discovery in the dataset. Association analysis distinguished strong rules present and followed within the transaction history to be used by sales team for optimized marketing.

**Machine Learning** [GitHub]: Analyzed and processed a breast cancer tumor dataset, using python scripts, holding over 17000 datapoint with 569 tumor sample specifications. Implemented 5 different classification methods, Gaussian Naive Bayes Classification, SVM (Support Vector Machine), KNN (K-Nearest Neighbor Algorithm, Decision Tree Classification and ANN(Artificial Neural Network), by using the Scikit-Learn to render a model that can predict with high accuracy whether a breast cancer tumor is benign or malignant. Accuracy was measured with a portion of the dataset being used for testing in order to compare the performance of the classification methods.

## Professional Experiences

**Data Engineer, Jarvis Consulting (2022-Present):** Developed applications and managed Data using Linux, Bash Scripting, SQL, Python(Pandas, NumPy) and Hadoop. Implimented and used software tools such as IntelliJ, Visual Studio, Google Cloud Platform, VNC(Virtual Network Computing) and Docker to complete the assigned Data Engineering projects. The position provided me with first hand experience using Agile/SCRUM framework in an evolving work enviornment to host and run daily scrum meetings as well as bi-wekkly sprint retrospectives.

**Financial Treasurer, SRCC (2015-Present):** Managed Finances for the charity and projected optimal fund raising oppunities. Analyzed and calculated charity financial trends as well as developing plans to maximum attainable growth.

## Education

**Ryerson University (2018-2022),** Bachelor of Sciences (Honors), Computer Science - Dean's List (2020-2021, 2021-22): GPA of 3.5 or higher - Last Two Year CGPA: 3.53/4.0 - Minor in Finance

## Miscellaneous

- Azure Data Science (In-Process)
- Deans list (2020-2021, 2021,2022)
- Volleyball
- Cricket
- Casual Gaming
- Hiking
- Board Games
- Volunteer, SRCC(Syrian Refugee Camp Charity)(2015-Present)