

# Sharyar Memon

Software Engineering Student

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Skilled **Machine Learning** aficionado and meticulous programmer with demonstrated experience in data analysis pipelines for large data sets, supervised learning (classifiers, regressors), unsupervised learning, and computer vision. Well versed in dev ops tools like Git, SSH, Linux, Shell, and WSL. Eager to contribute to team success through hard work, continuous improvement and learning.



## Skills & Tecnology Stack

- ◆ Languages: Python, Java, C, C++
- ◆ Python Frameworks (Jupyter, Dash, Django, Pandas, Numpy)
- ◆ Machine Learning & Data Science Applications
- ◆ Operating Systems: Ubuntu, MacOS, Windows (WSL), CentOS, ArchLinux
- ◆ Enterprise Grade Data Analysis & Visualization Software (Quantitative & Qualitative)
- ◆ Familiar with cloud development: Azure, Google Colab, AWS
- ◆ Microsoft Office Suite & Adobe Creative Cloud



## Education

- ◆ **Sep 2020 - Current** **Master of Engineering: Software Engineering**  
*University Of Alberta - Edmonton, Alberta, Canada*
  - Specialization: Intelligent Systems & Data Analysis.
  - Coursework in Data Analysis and Decision Making, Computer Vision and Reinforcement Learning.
- ◆ **Sep 2011 - Apr 2015** **Bachelor of Science: Microbiology**  
*University Of Alberta - Edmonton, AB*



## Work History

- ◆ **Jun 2020 - Current** **Machine Learning Intern**  
*University of Alberta, Edmonton, AB*
  - Created machine learning classification models for identifying human errors in record-keeping of Deep Sequencing Data with an accuracy of over 86%.
  - Developed front-end interfaces for machine learning applications that help end-users with data-visualization and summary reports by using Jupyter Notebooks and Dash.

- Built automated pipelines for Data Pre-processing and data Wrangling to ensure optimal performance of machine learning models.
- Designed and developed regression models for predicting experiments to conduct based on current data reducing manual labor significantly.
- Leveraged knowledge of Python, Coding, Data Analysis Techniques like modeling and data wrangling.

**Apr 2018 -  
Dec 2019**

## **Education Coordinator**

*Alberta Pensions Services Corporation, Edmonton, AB*

- Revamped statistics collection for the department by using Advanced Filters and VBA in Excel. This led to a 30% decrease in the amount of time spent collecting, analyzing, and reporting metrics.
- Researched and assisted with the implementation and administration of a Learning Management System. This included gathering usage statistics via surveys, doing both qualitative and quantitative analyses, and presenting reports of data.
- Developed E-Learning resources for clients by using Microsoft Office Applications (PowerPoint, Excel, Word).
- Found errors with survey processes that could have led to serious privacy breaches for clients and implemented solutions to ensure the security of data while coordinating with Technology and Privacy teams.

**Mar 2014 -  
Current**

## **Business Owner**

*Box Cube Photography, Edmonton, AB*

- Automated lead generation, invoicing, contracts, and emails by using a combination of tools including CRM, Excel, WordPress & Gmail Suite. This led to an 80% reduction in the amount of time spent on these tasks.
- Learned how to build websites and created three different interactive websites for the business based on HTML, CSS, WordPress & JavaScript
- Managed day-to-day operations of the business while being in the school including tracking expenses, researching the competition and on-going trends, responding to clients, and delivering products.



## **Hackathons**

### **CalgaryHacks 2020:**

- Created a supervised machine learning-based application that would capture images from a Python-Django-based website and use those images to predict skin-condition.
- Coordinated with three other team members to implement the application within 24 hours.

### **HACKED 2020:**

- Worked with three other team members to create a website for advertising local services such as snow-shoveling, window-cleaning, etc.
- Created a functional website with a Python Django based framework attached to a relational database to store jobs and users.



## **Certifications**



**Apr 2020**

Programming Foundations: Data Structures

**Apr 2020**

Programming Foundations: Databases