

# ANDY YANG

## Data Scientist

+1-647-461-6466 • syyyang003@gmail.com • [linkedin.com/in/andyang80](https://www.linkedin.com/in/andyang80) • [GitHub](#) • Toronto, ON

## SUMMARY

- Strong data analysis skills from implementing database analytics solutions with SQL, API backend programming, BI dashboard creation and ETL pipelines at companies such as Toyota and Johnson & Johnson
- Strong academic experience in machine learning with projects in regression and classification modelling using Pandas and Sci-kit Learn, optimizing neural networks in PyTorch, and cloud computing using AWS, and Spark
- Coding experience with Python, R, SQL, .NET, and C# working in Agile and DevOps environments
- Excellent interpersonal and communication skills, proven ability to explain complex technical terms in simple words

## EDUCATION

### M.S. of Data Science

Sep 2021 – Jul 2022

University of British Columbia, Vancouver, BC ([coursework information](#))

### BASc. of Chemical Engineering

Sep 2016 – Apr 2021

University of Waterloo, Waterloo, ON

## WORK EXPERIENCE

### Royal Distributing Inc. Guelph, ON

#### Implementation Specialist

May 2021 – Aug 2021

- Showcased critical thinking skills by building data scraping and collection infrastructure from scratch using C# and .NET Framework, integrating API data from over 10 retail vendors into the ETL pipeline
- Collaborated with database administration team to build custom APIs within ASP.NET, expediting data migration from legacy FoxPro databases to Microsoft Azure database

### Toyota Motor Manufacturing Inc. Cambridge, ON

#### Information Systems Analyst

Jan 2020 – Apr 2020

- Displayed excellent analytical ability by optimizing SQL server database schema and restructuring ETL data pipelines, reducing server load and speeding up query response times by up to 300%
- Scripted upgrades for query app using AngularJS and ASP.NET, adding features such as improved user interface and parameterized queries, significantly improving access to critical production data and KPIs
- Constructed custom data visualization dashboards in Power BI to display Linux server activity metrics

### Johnson & Johnson Markham, ON

#### Supply Chain Coordinator

Apr 2019 – Aug 2019

- Demonstrated initiative and innovation by programming novel VBA data analysis tools, providing automated report generation, detailed visualizations, and regression modelling for product stock levels, receiving an encore award
- Showcased effective leadership and communication skills by facilitating cross functional tool integration between supply chain and quality control, reducing quality control errors by up to 20%

## PROJECTS

### LiDAR Object Detection and Classification for Cities

May 2022 – Jun 2022

Reliance Foundry Co. Ltd. UBC MDS Capstone

- Trained and optimized deep neural network using PyTorch to perform 3D object detection within point clouds
- Achieved a validation precision score of 0.85, getting recognized as one of the top 5 capstone projects of 2022

### AUS Rainfall Prediction

Oct 2021 – Nov 2021

UBC Master of Data Science

- Optimized and deployed random forest regression model to predict rainfall levels using Hadoop, S3, AWS, & Spark

## SKILLS

**Coding Languages and Tools:** Python, R, C#, Excel VBA, Jupyter Lab, ASP.NET, Rest APIs, PowerShell, Docker, Linux

**Data Platforms:** SQL, NoSQL, PostgreSQL, SSIS, Power BI, SAP, AWS, Spark, S3, Hadoop, MongoDB, SAS (certified in 9.4)

**Machine Learning:** Scikit-Learn, PyTorch, Ensemble Modelling, Neural Networks, Natural Language Processing