

# ALBERT YU

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## Education

### Wilfrid Laurier University

*Master of Science in Management Analytics (MMA) Candidate*

Waterloo, ON

2022 – 2023

### University of Toronto

*Bachelor of Science in Mathematics and Statistics*

Toronto, ON

2017 - 2022

## Technical Skills

**Languages:** Python, SQL, R, C, HTML, CSS, JavaScript

**Tools:** Tableau, Power BI, Microsoft Azure, Git/Github

**Certifications:** Data Manipulation with Pandas, Data Analysis with SQL, Azure Fundamentals

**Github:** <https://github.com/AlbertYu97>

## Relevant Coursework

- ML for Business
- Decision-making
- Applied Econometrics
- Categorical Analysis
- Application of AI
- Tableau Visualization
- Regression Analysis
- OOP in Python

## Experience

### Ceridian Dayforce

Jan 2023 - Present

*Data Scientist Intern*

Toronto, ON

- Developed a highly scalable machine learning model with Azure function and verified results using Postman
- Designed and implemented time series analysis to forecast KPIs with Facebook Prophet, improving the accuracy by 30%
- Automated data cleaning, cross-validation and hyperparameter tuning to reduce model-building time by 80%
- Served as scrum master for the Workforce Management team, leading daily development scrum meetings and supporting team members with workload management

### Stars Technologies Services (PokerStars)

May 2022 – August 2022

*Data Analyst Intern*

Toronto, ON

- Led the development of a machine learning model with Python to predict tournament duration used by millions of PokerStars customers
- Managed data extraction using SQL queries in a large-scale database environment to access, transform, and clean data for modelling; Selected and created suitable features for the model based on customer behaviour
- Conducted XGBoost and Random Forest to the model and utilized Shapley value for interpretability
- Performed hyperparameter tuning using grid search to improve model performance and achieved over 90% accuracy

### Stars Technologies Services (PokerStars)

May 2021 – August 2021

*Junior Poker Delivery Analyst Intern*

Toronto, ON

- Executed test cases across different OS systems and verified actual results to ensure application logs are free of errors and database tables contain valid data as a member of the Quality Assurance team
- Performed systematic tests of the software and identified over 50 requirement gaps and functional bugs
- Communicated and cooperated with developers, designers, product management and other business owners in all stages of the bug detection and debugging lifecycle to maintain server stability
- Performed ad-hoc analysis on reproducing potential bugs on test/released servers and provided clarification and guidance to support code repair, reducing issue resolution time by 20%

## Projects

### 100 Days of Code | *Udemy*

August 2022

- Gained a strong understanding of OOP, GUI, Tkinter, Front-End Web Development, HTML 5, CSS3, Bash, Git and APIs
- Created one personal website and 20+ projects like snake game, pong game and cheap flights finder

### CS50 (CS & AI & Web Development) | *Harvard*

June 2022

- Explored the foundational concepts and algorithms of modern artificial intelligence, delving into the ideas that give rise to these technologies
- Gained practical experience with libraries for machine learning, creating python projects, and gaining exposure to the theory behind graph search algorithms, classification, optimization, deep learning, and other topics