

# ALBERT YU

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## Education

### Wilfrid Laurier University

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

Waterloo, ON, Canada

2022 – 2023

### University of Toronto

*Bachelor of Science in Mathematics and Statics*

Toronto, Ontario

2017 - 2022

## Technical Skills

**Languages:** Python, Java, JavaScript, HTML5, CSS3, C, SQL/NoSQL

**Developer Tools:** React, Ruby on Rails, CI/CD, Node, Docker, K8s

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Regression Analysis
- Complex Analysis
- Software Methodology
- Machine Learning
- Linear Programming
- Number Theory

## Experience

### Ceridian Dayforce

Jan 2023 - Now

*Data Scientist Intern*

Toronto, ON

- Worked on the Workforce Management team to build a highly scalable machine learning model with Azure for clients
- Hosted daily development scrum meetings and helped team members manage the workload.
- 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 by 80%

### Stars Technologies Services (PokerStars)

May 2022 – August 2022

*Data Analyst Intern*

Toronto, Ontario

- 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, Ontario

- 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 Quality Assurance team
- Performed systematic test to 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

## Projects

### 100 days of code | Udemy

January 2022

- Gain 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 concepts and algorithms at the foundation of modern artificial intelligence, and dived into the ideas that give rise to technologies
- Emerged with experience in libraries for machine learning, by creating python projects. Gain exposure to the theory behind graph search algorithms, classification, optimization, deep learning and other topics