

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

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

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

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- OOP in Python
- Master JavaScript
- Software Methodology
- Machine Learning
- System Design
- Advanced SQL

## 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

### GoalSetter - Personal Goal Management App

January 2023

- GoalSetter App Overview: An application for managing personal goals, allowing users to create, update, and delete goals, with secure user authentication and seamless navigation experience.
- Leveraged JavaScript and React: Developed the frontend using JavaScript and React, creating reusable components, managing state with Redux, and implementing client-side routing with React-Router for a smooth user experience.
- Utilized MERN Stack: Employed MongoDB for database management, Express for creating RESTful API, React for frontend development, and Node.js for backend, enabling efficient full-stack development and seamless app functionality.

### 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.