

# Jinxiao Zhou

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## Education

**York University**, Toronto, ON

September 2021- April 2025

*Honor Bachelor of Art, Information Technology*

**University of Toronto**, Toronto, ON

September 2025- April 2027

*Master of Engineering, Mechanical & Industrial Engineering*

Emphasis in Data Analytics & Machine Learning

## Technical Skills

- **Programming Languages:** Java (Advanced), Python (Intermedia), SQL (Advanced), MATLAB, HTML, CSS, JavaScript, JSON, XML
- **Frameworks & Tools:** Maven, NodeJS, Scikit-learn, Junit, Git, Linux, VS code, Jupyter, API
- **Databases:** Relational & Object-Oriented Database, MySQL, Oracle SQL
- **Data Analytic:** Visualization, Hadoop MapReduce, Spark, Azure (Big Data Processing, ML, IoT, etc.), Fine-tuning, Machine Learning, Reinforcement Learning
- **Coursework:** Data Mining, Optimization, Object-Oriented Design and Programming, Database Design, Reactive Web Application, Design distributed System

## Work Experience

**Java Developer Intern**

FULL-TIME ,2024 SUMMER

Juphoon System Software

- Developed backend features on a VoIP open platform using Java
- Handled JSON data processing and established RPC connections with C++ core functions
- Simulated client-side requests using Postman to test and validate backend integrations
- Ensured smooth integration and functionality across the platform.

**Intern**

2022 SUMMER

Bank of China

- Supported daily operations as a lobby manager, guiding customers with self-service tools
- Promoted mobile banking app installations and educated users on digital banking
- Participated in outreach campaigns to assist clients in connecting their bank cards with mobile apps

## Projects

### Credit Card User Churn Analysis

[github.com/mjmcmanaman/itec4305a1](https://github.com/mjmcmanaman/itec4305a1)

- Built a churn prediction model using **Python**, **Scikit-learn** in **Jupyter** notebook.
- Visualize by **Seaborn** and preprocessing data (Applied features transform, fill missing value, remove outlier, clustering).
- Tested and fine tuning multiple models (KNN, Vaive Bayes, Decision Tree, SVC and XGBoost) using 5-fold cross validation.
- Delivered a detailed proposal with model performance analysis and business insights

### Real Estate Data Management System

[github.com/JinxiaoZhou/ITEC-4220-Group-Project](https://github.com/JinxiaoZhou/ITEC-4220-Group-Project)

- Designed and implemented a data system using object-relational **SQL** schema.
- Defined Problem scope and user views, show database design using **class diagram**.
- Translated class diagrams into type and type body definitions.
- Integrated polymorphic member functions to handle property subtypes.

### Gas Station Discrete-Event Simulation

[github.com/JinxiaoZhou/Simulation](https://github.com/JinxiaoZhou/Simulation)

- Developed a simulation in Java using **Maven** and **Junit**.
- Push the code in **git** remote repository.
- Resolved bugs in legacy codebase and written unit test using **Junit**.
- Demonstrated event scheduling flow and simulation results in presentations.

## Extracurricular Activities

- Volunteer work at train station
- Volunteer work at primary school
- Volunteer tour guide
- HSBC Open Day 2022 (Certificate of Recognition)
- 2024 Toronto - York University Terry Fox Run (10km)

## Additional information

- Fluent English
- Native level Mandarin
- Basic French (A2)
- CSIA Regular - Certified Level 1 Ski Instructor