

JIWON CHOI

✉ jwon.choi@mail.utoronto.ca  jwonc4602  jwonc4602  jwonc4602.github.io/jwonc4602/

EDUCATION

University of Toronto – Honours Bachelor of Science
Double Major in Mathematical Sciences and Applied Statistics
Minor in Computer Science

September 2021 - April 2025 (Expected)

TECHNICAL SKILLS

Programming Languages: Python, R, Java, HTML/CSS, JavaScript, Kotlin, Swift

Technologies: Git, React, Django, MongoDB, Google Cloud, Firebase

EXPERIENCE

Ooryu | *Co-Founder & Software Developer*

July 2023 - Present

- Founded a service for university students to be connected through a mobile application
- Led full-stack development by integrating open-source APIs and frameworks, such as **SwiftUI**, and **FirebaseAuth** to optimize functionality and data management

Selfie Paradox | *IEEE MakeUofT 2023 Hackathon - Team Project*

February 2023

- Developed an **Android 12** camera app using **CameraX API** with collaboration through Github, learning **effective design & communication skills** for team software project
- Participated in **full-stack** development by improving UI/UX with **XML** and developing its functionality with **Kotlin** and **C++** using **Android Studio** and **Arduino**

Credit Default Risk Prediction Project | *Kaggle Machine Learning Competition*

August 2022

- Built and evaluated **tree-based** machine learning models, such as the **Random Forest Model** and **XGBoost** for credit risk assessment with **72% accuracy**
- Optimized model performance through hyper-parameter tuning using the **scikit-learn** framework and reduced training time by six-fold utilizing **GPU computing** in **Azure Cloud** environment

Facial Expression Recognition Project | *Individual Project*

January 2022

- Trained a model with 1000+ images from an open-source package and utilized the best-trained model for expression classification on input images to achieve accuracy of over **86%**
- Implemented image augmentation, custom train, and evaluation functions using **Numpy** and **CUDA** and visualized the data with **Matplotlib** in **PyTorch** with **Jupyter Notebook**

INTERESTS

Data Analysis 

- Enjoy data analysis and data visualization by leveraging **R**, **MATLAB**, **Microsoft Excel**, and etc
- Interested in various data analysis tasks, especially in economics and sports

Highschool Student Developer Club | *Vice President*

June 2019 - June 2021

- * Played a key role in organizing various engineering projects and mentoring 10+ club members
- * Led a team of **3** to successfully develop multiple games using **Python**, **C**, and **C++**, and to achieve strong programming skills and versatility across different languages