

JIWON CHOI

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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, SQL, Java, HTML/CSS, JavaScript, Kotlin, Swift

Technologies: Git, Spark, Django, MongoDB, Firebase, AWS, Azure

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

Demand Forecasting for Homeless Shelter Services | *Research Project*

December 2023

- Executed reproducible and in-depth research for the dataset that has 30+ variables and 2500+ rows
- Utilized **R** data analysis tools, including **ggplot2**, **tidyverse**, and **dplyr**, for data cleaning, simulation, and generating visually compelling and informative visualizations

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**

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 visualized the data with **Matplotlib** in **PyTorch** with **Jupyter Notebook**

INTERESTS

Data Analysis 

- Proficient in data analysis and visualization, harnessing the power of tools such as **Power BI**, **MATLAB**, **Microsoft Excel**, and etc with various data formats including **CSV**, **JSON**, and **XML**
- Passionate about tackling diverse data analysis challenges, with a particular focus on economics and sports analytics.

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