

# Jerry Hou

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## SKILLS & ABOUT ME

**Languages:** JavaScript, Java, Python, C, C++, SQL, Swift, Bash, Racket

**Technology:** Express, React, JQuery, Pandas, Tensorflow, Django, MongoDB, Git, Linux, Firebase, Postman, Sketch

**Hobbies & Interest:** Machine Learning, Finance, Competitive Programming, Chess

## EDUCATION

**University of Waterloo**

Waterloo, ON | 2020 - 2025

BMATH. MATHEMATICS. - GPA : 3.5 / 4.0 - MAJOR GPA : 3.6 / 4.0

## WORK EXPERIENCE

**HUAWEI CANADA** | DATA PLATFORM DEVELOPER INTERN Markham, Ontario | Jan 2022 – Apr 2022 (expected)

- Working on distributed systems and data processing

**REKAMMEND** | SOFTWARE ENGINEER INTERN

Vaughan, Ontario | May 2021 – Aug 2021

- Designed and created APIs with **Express** to track user usage patterns and provide relevant in-app suggestions.
- Optimized machine learning model and added support for **Numpy** input, storage and extraction, reducing model compile time by **54%**, improving model response time by **56%** and increasing recommendation click-rate by **12%**.
- Iterated designs for iOS mobile app interface using **Sketch**. Designed trial studies and conducted interviews to obtain feedback and suggestions from target audience; incorporated into final design.
- Designed and implemented backend APIs with **Express** and **MongoDB** for data storage, retrieval and collection.
- Developed, tested and deployed native iOS mobile apps written in Swift. Connected bf backend APIs and implemented final app design using **SwiftUI**.
- Designed and implemented data analytic dashboards using **Python** and **Pandas** to visualize user preferences, usage patterns and metrics stored in **MongoDB**.

**DUOWEI EDUCATION** | TEACHING ASSISTANT

Richmond Hill, Ontario | Nov 2019 - March 2020

- Taught mathematics concepts and CS algorithms and data structures such as BST, BFS, sorting methods to high school students ranging from grade 9 to 11.
- Students have gone on to score 90+ percentiles in the Canadian Computing Competition (CCC) and Waterloo's Euclid Math Contest.

## PROJECTS

**FOODFIND (HACK THE VALLEY 5)** 

JAVASCRIPT, REACT, GOOGLE PLACES API

- FoodFind allows user to easily filter cuisines in a group setting and provides restaurant recommendations.
- Employs Google Map and Google Places API to find nearby restaurants and provides relevant map guidance.

**UWFLOW++** 

JAVASCRIPT, JQUERY

- Built Chrome extension to quickly preview a UWaterloo course's UWFlow ratings by hovering over course listing.
- Currently published on [Chrome Extension Store](#)

**IMAGE REPOSITORY** 

JAVASCRIPT, REACT, FIREBASE

- Image repository webapp that allows users to upload their images and search them via keywords or descriptions.

## AWARDS & HONOURS

**WILFRID LAURIER UNIVERSITY & TD CYBER SECURITY CASE** | SEMI FINALIST

Waterloo, ON | Nov 2020

**2019 CANADIAN COMPUTING COMPETITION** | TOP 20% SCORE

Waterloo, ON | Feb 2019

**2019 EUCLID MATH CONTEST** | TOP 20% SCORE

Waterloo, ON | April 2019