# Tailai Wang
## Computer Science and Business Administration Double Degree Student

(519) 999-4890 | tailai.wang@uwaterloo.ca | github.com/tailaiwang | tailaiwang.me

## Technical Skills

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|---|---|
| Programming Languages: | Python, Java, C/C++, Swift, JavaScript, Scheme, SQL, HTML/CSS |
| Frameworks/Tools: | MongoDB, Express.js, React.js, Node.js, AWS, Git, GCP |

## Experience

**Tile**                                                                                  Winter 2022
*Software Engineering Intern - iOS Platform*                                    *San Mateo, California*
- SWE intern on the Mobile Engineering team
- Worked on validating characterization and cleaning algorithms for Ultra Wideband (UWB) Data
- Refactoring and implementing new "micro-app" architecture for Tile services and frameworks

**Sonova Innovation Lab**                                                         Jan 2021 - Apr 2021
*Software Developer Intern - iOS*                                                    *Kitchener, Canada*
- Spearheaded development of Hearing Aids Finder application for iOS
- Used **Core Bluetooth** and **Core Location** through **Swift** to create **3 Bluetooth Proximity features**
- Collaborated with design to implement new screens using **UIKit** to maximize app accessibility
- Increased reusability by refactoring **Objective-C** code to implement location-logging triggers
- Streamlined QA process for a **Google Assistant Action** using **Flask**, drastically reducing test time

**Questrade Financial Group**                                                     Apr 2020 - Aug 2020
*Production Engineering Intern*                                                        *Toronto, Canada*
- Cut response times by **90%** by automating **company-wide** alerts using **JavaScript** & **G-Suite API**
- Developed HRM app using **MERN** stack, enabling incident simulation training and team analytics
- Performed key data fixes for Business Intelligence on **MySQL** ledgers involving **over 10000** accounts

## Leadership

**Hack the North** - hackthenorth.com                                          Hackathon Organization
*Logistics Team Lead (2022-Present)*
- Organizing Logistics for Canada's biggest hackathon, **serving 1500+** participants a year
- Leading 4 organizers to execute judging, workshops, volunteering, and other key deliverables

**Clove** - clove.eco                                                                 Entrepreneurship
*Tech Lead (2021-Present)*
- Executed technical development of mission-critical Shopify app plugin using **Node.js** and **Liquid**
- Headed implementation of **3+ iterations** of pastable code snippet using **Next.js** and **Firebase**
- Advised co-founders on product strategy, ideation, and value proposition throughout initial fundraising

**Laurier Case Team** - lauriercaseteam.ca                                        Case Competitions
*Assistant Coach (2022-23), Co-Captain (2021-22), Competitor - Digital Strategy (2020-21)*
- Led **50+ students** on one of Canada's leading undergraduate case teams as academic captain
- Solved and presented case problems in **digitalization**, **tech consulting**, and **business innovation**

## Projects

**Lyricalculus** - Devpost Link                                                 Hack the North 2021
- Led project ideation and design of a web application that evaluates song lyrics using ML and NLP
- Created processing system for **3000+** songs, performing **lexicographic and NLP semantic analysis**
- Trained and deployed **scikit-learn** ML model to analyze lyrics at **nearly 80%** accuracy

**To The Moon** - Devpost Link                                                Hack the North 2020++
- Scraped *r/wallstreetbets* using **PRAW** on **Jupyter Notebook** to aggregate stock discussion posts
- Created data pipeline with **Pandas** and **Dropbase** to create a real-time scraping database
- Developed **Flask API** with **Google Cloud NLP** to make stock picks through market sentiment analysis
- Made **React.js** charts to showcase **almost 50** most bullish/bearish stocks traded on NYSE/NASDAQ

**MomsOverMatter** - lleTTonna.com                                                        lleTTonna
- Developed *MomsOverMatter*, a free medical information tool for depression treatment for new mothers
- Used **PostgreSQL** and the **MERN** stack to implement questionnaire features and web app components
- Created standardized **Express.js** endpoints to export surveys to doctors, **halving administration time**

## Education

**University of Waterloo and Wilfrid Laurier University**                         Sep 2019 - Present
BCS/BBA Computer Science and Business Administration (Double Degree)                *Waterloo, Canada*
- **Awards**: J. Wesley Graham National Scholarship (2019), WETech Young Tech Student of the Year (2019)
- **Interests**: Fitness, Sustainability, Global Affairs, Financial Markets, anything that ends with "ball"