

TAILAI WANG

COMPUTER SCIENCE AND BUSINESS ADMINISTRATION DOUBLE DEGREE STUDENT

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TECHNICAL SKILLS

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 and Data

San Mateo, California

- SWE intern on the Mobile Engineering team
- Working on Ultra Wideband (UWB) data systems for Tile AR features

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

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**

LEADERSHIP

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

The GoldenHack - [thegoldenhack.ca](#)

Hackathon Organization

Vice President of Operations (2020-2021), Full Stack Developer (2019-2020)

- Leading logistics for judges, mentors, and volunteers at Canada's first hybrid entrepreneurship hackathon.
- Worked in **Agile** development teams to launch **Cognito** application processing systems and website
- Collaborated through **Git** to use **Lambda** and **DynamoDB** to create a data pipeline for applications

Laurier Case Team - [lauriercaseteam.ca](#)

Case Competitions

Academic Co-Captain (2021-2022), Academic Delegate - Digital Strategy (2020-2021)

- Leading **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**

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, Spikeball, Fantasy Sports, Hip Hop