

# 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  
Tools/Technologies: MongoDB, Express.js, React.js, Node.js, AWS, Git, HTML/CSS

## EXPERIENCE

### Sonova Innovation Lab

Jan 2021 - Apr 2021

*Software Developer Intern - iOS*

*Kitchener, Canada*

- Spearheaded development of Hearing Aids Finder application for iOS (similar to Tile or AirTags)
- 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

### knct - [knct.world](https://knct.world)

Jul 2020 - Jan 2021

*Full-Stack Software Engineer*

*Lausanne, Switzerland*

- Worked closely with founders to build core community application of the **EPFL La Forge** startup
- Created new **Express.js API** features for communities & conversations, enabling increased customization
- Enhanced user experience through standardized form validation using **Typescript** and **React Formik**
- Performed **User Acceptance Testing** and **6 critical hotfixes** in weeks leading to product launch
- Led independent team to prototype **Business Intelligence API**, aggregating **3 analytics systems**

### Questrade Financial Group

Apr 2020 - Aug 2020

*Production Engineering Intern*

*Toronto, Canada*

- Monitored trading & market data routing using **Splunk** dashboards to maintain **99.9% uptime**
- 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

### 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 **Droptbase** 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

### Taxmaps - [Devpost Link](#)

WinHacks 2020

- Awarded "People's Choice Award" at WinHacks 2020 from a pool of **74 projects**
- A personal finance app built using **React.js**, **Node.js**, and **CRA Tools** to empower taxpayers with spending visualization and political tax-plan comparisons.

### MomsOverMatter - [leTTonna.com](https://leTTonna.com)

leTTonna

- 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

### The GoldenHack - [thegoldenhack.ca](https://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

### JDCC Laurier - [cabsonline.ca](https://cabsonline.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)
- **Clubs:** MathSoc CS Representative, UW SERVE Volleyball, Math Orientation Leader, Intramurals
- **Interests:** Running, Boulderling, Financial Markets, 9-Man Volleyball, Fantasy Basketball, Hip Hop