

# TAILAI WANG

COMPUTER SCIENCE AND BUSINESS ADMINISTRATION DOUBLE DEGREE STUDENT

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## TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, Scheme, SQL  
Tools/Technologies: MongoDB, Express.js, React.js, Node.js, AWS, Git, HTML/CSS

## EXPERIENCE

### Questrade Financial Group

April 2020 - August 2020

*Production Engineering Intern*

Toronto, Ontario

- 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
- Utilized **GitLab** for version control and tracked requests & upgrades through **JIRA** & **Confluence**

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

April 2020 - Present

*Software Engineering Lead - Backend*

Waterloo, Ontario

- Worked closely with UI/UX designers and PMs to overhaul web app, increasing user base by **5x**
- Led creation of new API features for User Customization, reducing **MongoDB** document size by **32%**
- Integrated **Socket.IO** chat functions with **React** app hooks, standardizing API calls and chat storage

## PROJECTS

### MomsOverMatter - [lleTTonna.com](https://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**

### Taxmaps - [devpost.com/taxmaps](https://devpost.com/taxmaps)

WinHacks 2020

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

### Tourhub - [devpost.com/tourhub](https://devpost.com/tourhub)

Hack the North 2019

- Awarded "**Accenture API Prize**" at Hack the North 2019
- A travel app built using **Node.js**, **Python**, **Firebase**, and **HTML/CSS** to aid high-school students and educators with booking university tours and campus visitations.

## LEADERSHIP

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

Event Organization

*Tech Team Executive*

- Working in **Agile** development teams to launch **Cognito** application processing systems and website
- Collaborating through **Git** to use **Lambda** and **DynamoDB** to create a data pipeline for applications

### Major League Hacking

Mentorship

*Mentor/Judge*

- Longtime volunteer for student hackathons, supporting software/hardware projects and workshops
- Organizations include: StarterHacks (Mentor), MasseyHacks (Mentor/Judge), Novartis (Gen-Z Mentor)

### JDCC Laurier - [cabsonline.ca](https://cabsonline.ca)

Education

*Academic Delegate - Digital Strategy*

- Representing the Laurier Case Team as an Academic Competition delegate in the **Digital Strategy** tract
- Solved and presented case problems in **digitalization**, **tech consulting**, and **business innovation**

## AWARDS

### J. Wesley Graham National Scholarship

University of Waterloo, Mar 2019

- **1 of 10** Canadian students to be awarded an \$18,000 scholarship from a pool of **over 3000 incoming students** for excellence in mathematics, computing and leadership

### Deloitte Young Tech Student of the Year

Deloitte & WeTech Alliance, Sep 2019

- Awarded "Tech Student of the Year" for exceptional leadership and community service contributions to the Windsor-Essex region

## EDUCATION

### University of Waterloo and Wilfrid Laurier University

Sep 2019 - Present

BCS/BBA Computer Science and Business Administration (Double Degree)

Waterloo, Ontario

- **Clubs:** UW Res Council, UW Lifesaving Team, UW SERVE Volleyball, Math Orientation Leader
- **Interests:** Running, Boulderling, Financial Markets, 9-Man Volleyball, Fantasy Basketball, Hip Hop