

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

Winter 2021

Software Developer Intern - iOS

Kitchener, Canada

- Creating HIFinder application & dashboards using **Swift** and **UIKit** to enhance hearing aid usability
- Using **Flask** and **Google Assistant** to create hearing diagnostic webhooks for vocal interactions

knct - 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](https://devpost.com)

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](https://devpost.com)

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 - 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

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

JDCC Laurier - 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, Bouldering, Financial Markets, 9-Man Volleyball, Fantasy Basketball, Hip Hop