Tailai Wang

Computer Science and Business Administration Double Degree Student

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

TECHNICAL SKILLS

Python, Swift, C/C++, JavaScript, Java, Scheme, SQL Programming Languages:

Frameworks/Tools: MongoDB, Express.js, React.js, Node.js, GraphQL, AWS, GCP, Git

EXPERIENCE

Tile

Jan 2022 - Apr 2022

Software Engineering Intern - iOS Platform

• Implemented DynamicType infrastructure to introduce accessibility fonts to 100k+ users San Mateo, California

- Sped up app build time by over 20% by implementing XCFrameworks and compiler optimizations
- Validated characterization algorithms for Ultra Wideband (UWB) Data using sklearn and matplotlib

• Improved new architecture framework by migrating views and view controllers from Objective-C to Swift

Sonova Innovation Lab

Jan 2021 - Apr 2021

Kitchener, Canada

Software Developer Intern - iOS

- Spearheaded development of Hearing Aids Finder application for iOS
- Used Core Bluetooth and Core Location through Swift to create 3 Bluetooth Proximity features
- 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
- Managing \$XXX,XXX logistics budget to deliver existing projects and new initiatives
- Leading organizers to execute judging, registration, mentorship, activities 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

International Competitor (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

MomsOverMatter - Product Link

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- 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

Lyricalculus - Devpost Link

- 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 to aggregate stock discussion posts in a data pipeline
- Developed Flask API with Google Cloud NLP to make stock picks through market sentiment analysis
- Made React. is charts to showcase almost 50 most bullish/bearish stocks traded on NYSE/NASDAQ

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), Term Dean's Honours List (2020, 2021, 2022)
- Interests: Fitness, Sustainability, Global Affairs, Financial Markets, anything that ends with "ball"