

TAILAI WANG

✉ tailai.wang@uwaterloo.ca
in tailai-wang @tailaiwang
🌐 tailaiwang.me

SUMMARY

Computer Science and Business National Scholar at the University of Waterloo **graduating in 2024**. Software Engineering experience in **trading, big data, consumer tech**, and **medical** industries. Strong CS fundamentals and ability to move fast in new technical settings, **proven leadership and collaboration skills** in high-performing teams.

TECHNICAL SKILLS

Programming: Python, Java, C/C++, JavaScript **Web:** React, Express.js, Node.js, OpenAPI, HTML/CSS
Mobile: Swift, Objective-C, UIKit, SwiftUI **Data:** Spark, Kafka, MongoDB, SQL, Firestore, S3

EXPERIENCE

- IMC Trading** Jun 2023 - Aug 2023
Software Engineer Intern - Equity Options (*details covered by NDA*) Chicago, IL
- IMC is a proprietary trading firm that focuses on technology-driven market making
 - Drove 0 to 1 design and development of a critical high-performance **ML Infrastructure project**
 - Produced robust and scalable backend infrastructure using technologies like **Java, Python, Kafka** and **S3**.
 - Collaborated in rigorous systems design and architecture planning with multiple engineering teams
- Palantir Technologies** Jan 2023 - Apr 2023
Forward Deployed Engineer Intern - Automotive & Mobility London, UK
- Directly responsible for core data features in a **multi-billion dollar** vehicle quality analysis platform
 - Built and optimized robust OEM field quality pipelines in PySpark for **datasets with 100bn+ rows**
 - Owned development of Data Science infrastructure like **A/B testing pipelines** and **PII Obfuscation**
 - Developed technical demos such as **GPT-3.5 in data cleaning** and big-data analysis in Palantir Foundry
- Tile, Inc.** Jan 2022 - Apr 2022
Software Engineer Intern - iOS Platform San Mateo, CA
- **Introduced accessibility fonts to 100k+ users** by implementing iOS DynamicType infrastructure
 - Sped up app build time by **over 20%** by implementing XCFrameworks and compiler optimizations
 - Validated algorithms for new AR features using **Ultra Wideband Data** through sklearn and matplotlib
 - Improved new **micro-app architecture** by migrating core features from Objective-C to Swift
- Sonova Group** Jan 2021 - Apr 2021
Software Developer Intern - Innovation Lab Kitchener, ON
- Spearheaded iOS development & architecture of **mobile "Find My" tool** to recover lost hearing aids
 - Used Core Bluetooth and Core Location through Swift to prototype **3 Bluetooth Proximity features**
- Questrade Financial Group** Apr 2020 - Aug 2020
Business Technology Support Intern - Production Engineering Toronto, ON
- Cut response times by **90%** by automating **company-wide alerts** using JavaScript & G-Suite API
 - Performed key data fixes for Business Intelligence on MySQL ledgers involving **10,000+** accounts

LEADERSHIP

- Hack the North** - hackthenorth.com Mar. 2022 - Present
Logistics & Research Advisor (23), Logistics Team Lead (22)
- Led logistics for the **world's biggest student hackathon**, hosting **1500+ participants annually**
 - Managed **\$XXX,XXX** logistics budget to execute projects and assisted with leading team of **40 students**
- Laurier Case Team** - lauriercaseteam.ca Aug. 2020 - Present
International Competitions (22-23), Co-Captain (21-22), Digital Strategy Competitor (20-21)
- Led 50+ students on one of **Canada's most decorated case teams** as academic captain
 - Won awards at **Rotterdam International Case Competition (2/16)**, **JDCC (2/9)**, and **HP (2/300)**

EDUCATION

- University of Waterloo** Sep 2019 - Apr-2024
BCS/BBA Computer Science and Business Administration (Hons. Double Degree) Waterloo, Canada
- Awards: **J. Wesley Graham National Scholarship**, **Deloitte Young Tech Student of the Year**
 - Interests: Fitness, Sustainability, Hip Hop, Financial Markets, anything that ends with "ball"