Tailai Wang

UNIVERSITY OF WATERLOO COMPUTER SCIENCE AND BUSINESS STUDENT

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TECHNICAL SKILLS

Languages:	Python, Swift, C/C++, JavaScript, Java, Scheme, SQL, HTML/CSS
Frameworks/Libraries:	React, Express, Node.js, Bootstrap, MaterialUI, UIKit, SwiftUI, REST, GraphQL
Data:	Matplotlib, sklearn, MongoDB, DynamoDB, Firestore, S3, MySQL

EXPERIENCE

Tile Jan 2022 - Apr 2022
Software Engineering Intern - Platform *San Mateo, CA (Remote)*
- **Introduced accessibility fonts to 100k+ users** by implementing 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 deprecated core features from Objective-C to Swift

Sonova Innovation Lab Jan 2021 - Apr 2021
Software Developer Intern *Kitchener, ON (Remote)*
- Spearheaded development & architecture of **mobile "Find My" tool** to recover and secure hearing aids
- 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
- **Reduced test time by 50%** by streamlining QA process for a Google Assistant Action using Flask

Questrade Financial Group Apr 2020 - Aug 2020
Production Engineering Intern *Toronto, ON (Remote)*
- Cut response times by **90%** by automating **company-wide alerts** using JavaScript & G-Suite API
- Developed team portal using MERN stack, enabling incident simulation training and analytics
- Performed key data fixes for Business Intelligence on MySQL ledgers involving **10,000+** accounts

PROJECTS

Clove - <u>Product Link</u> Jan 2021 - Apr 2022
- **Founding engineer** on e-commerce sustainability startup seeking funding for Toronto pilot program
- Headed implementation of pastable code snippet for **10 online businesses** using Next.js and Firebase
- Architected token management system for Shopify OAuth and Payments with a GraphQL API

To The Moon - <u>Devpost Link</u> Jan 2021 - Mar 2021
- Scraped *r/wallstreetbets* using PRAW to aggregate stock discussion posts in a **real-time data pipeline**
- Developed Flask API with Google Cloud NLP to make stock picks through market sentiment analysis
- Made React.js charts to showcase over **50 most bullish/bearish stocks** traded on NYSE/NASDAQ

Sorcery Nov 2020 - Dec 2020
- Two-player card game inspired by Yu-Gi-Oh/Hearthstone, played on a **C++ command line interface**
- Designed **MVC Architecture** to support multiple interfaces with reusable cards and scoring systems
- Implemented **decorator design pattern** to create player enchantments and other custom cards

LEADERSHIP

Hack the North - <u>hackthenorth.com</u> Mar. 2022 - Present
Logistics Team Lead
- Leading logistics for the **world's biggest student hackathon**, responsible for 6 mission-critical projects
- Managing **$XXX,XXX** logistics budget to deliver existing projects and new strategic initiatives
- Helping organize team of **40 students** to execute programming for **1500+ participants annually**

Laurier Case Team - <u>lauriercaseteam.ca</u> Aug. 2020 - Present
International Competitor (22-23), Co-Captain (21-22), Competitor - Digital Strategy (20-21)
- Training to compete internationally in **Europe, Australia,** and **Asia** against top case students
- Led 50+ students on **Canada's most decorated undergraduate case team** as academic captain
- Presented award-winning solutions in product strategy, digitization, and tech transformation

EDUCATION

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