

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 and architecture of Hearing Aids Finder application for iOS and iPadOS
 - 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 HRM app using **MERN** stack, enabling incident simulation training and team analytics
 - Performed key data fixes for Business Intelligence on **MySQL** ledgers involving **over 10,000** accounts

PROJECTS

- Clove - Product Link** Jan 2021 - Apr 2022
 - Founding engineer** on sustainability startup seeking funding for Toronto-based 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 - Devpost Link** Jan 2021 - Mar 2021
 - 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.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
- MomsOverMatter - Product Link** Apr 2020 - Aug 2020
 - Medical information web app for postpartum depression built with **React**, **Express** and **PostgreSQL**
 - Created modular React components to support paginated quizzes, infographics, and user profiles
 - Halved administration time** by building **REST API** endpoints with Express to export surveys

LEADERSHIP

- Hack the North - hackthenorth.com** Mar. 2022 - Present
Logistics Team Lead
 - Organizing Logistics for **Canada's biggest hackathon**, serving 1500+ participants each year
 - Managing **\$XXX,XXX** logistics budget to deliver existing projects and new strategic initiatives
- Laurier Case Team - lauriercaseteam.ca** Aug. 2020 - Present
International Competitor (22-23), Co-Captain (21-22), Competitor - Digital Strategy (20-21)
 - Training to compete internationally at **Rotterdam UAS** against the world's top case students
 - Led **50+ students** on one of Canada's most decorated undergraduate case teams as academic captain
 - Solved and presented case problems in **digitalization**, **tech consulting**, and **business innovation**

EDUCATION

- University of Waterloo** Sep 2019 - Apr-2024 (expected)
BCS/BBA Computer Science and Business Administration (Double Degree) Waterloo, Canada