

# Danny Lan

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## SUMMARY OF QUALIFICATIONS

- *Languages*: Swift, Python, JavaScript, Objective-C, C++, Bash, HTML/CSS, Kotlin
- *APIs and Frameworks*: SwiftUI, Node.js, React, Express, Firebase, MongoDB, Bitrise, MERN

## EDUCATION

**UNIVERSITY OF WATERLOO and WILFRID LAURIER UNIVERSITY** Sep 2017 – Apr 2022

Candidate for Bachelor of Computer Science (Waterloo) and Business Administration (BBA) – 3.9 GPA

- Relevant coursework: Algorithms, OOP, Data Structures, DB Management, Networks, Security, AI

## WORK EXPERIENCE

**COFFEE MEETS BAGEL – iOS ENGINEER** San Francisco, CA Sep – Dec 2021

- Improving **Swift/Objective-C** app to achieve iOS 15 compliance and reach UX accessibility milestones

**APPLE – SIRI AI/ML ENGINEER** Cupertino, CA Jan – Apr 2021

- Performed privacy-preserving experiments on how to improve automatic speech recognition (ASR)
- Developed and tested an end-to-end pipeline to collect 10,000s of speech recognition confusion pairs
- Built an on-client **Objective-C** plugin to detect ASR systematic errors with an automated 85% accuracy

**INSCOPIX – FULL STACK ENGINEER** Palo Alto, CA Jan – May 2020

- Released new versions of **Python** API and **C++** desktop app for neural video processing and analysis
- Took ownership of the entire Image Registration user workflow in the API, making use of **NumPy**, **SciPy**
- Reimplemented a Python NCC matrix matching algorithm in C++, speeding up the process at least 64x

**YAHOO/VERIZON MEDIA – SOFTWARE ENGINEER** Sunnyvale, CA Jan – Apr 2019

- Developed features for Analytics and Push Notification **ObjC SDKs** and built **Kotlin** Android demo app
- Optimized iOS Analytics SDK, reducing memory footprint by 15% and monitoring file size & memory

**MARLENA BOOKS – iOS DEVELOPER** Kitchener, ON May – Aug 2018

- Used **MVC** pattern in **Swift** to create e-reader app focused on accessibility for individuals with dementia
- Integrated **Firebase** Auth, Database, and Storage supported with serverless **Node.js microservices**

## PROJECTS

**ENTREPRENEURSHIP SOCIETY UW – VP TECHNICAL** Jan 2021 – Present

- Coordinated junior developers to satisfy university stakeholders in a leadership/PM/Scrum Master role
- Deployed entrepreneurship [project board](#) to deliver content from **Node.js/MongoDB** to **React** frontend

**BEAM – SOCIAL MEDIA FOR REAL CONNECTIONS** Apr 2020 – Present

- Established [iOS social media startup](#) focused on close friends and journaling – **YC W21 Interview**
- Designed **SwiftUI** frontend that communicates using **Protobuf** with a Ruby/PostgreSQL backend

**INCITE – EFFORTLESS CITATION GENERATOR** Sep 2018 – Jul 2019

- Built a **React** web scraper [chrome extension](#) to cite websites in MLA, APA, Chicago, & Harvard format

## AWARDS

- *2020 Alexa Conversations Hackathon Finalist* – Top 10 out of 130 submissions for interactive Alexa Skill
- *2018 BDO New Venture Competition Semi Finalist* – Top 32/300 in business pitch competition