

# Danny Lan

## Computer Science and Business Administration

L.danny18725@gmail.com – 647 609 5406 – Toronto, ON

 [www.dannylan.me](http://www.dannylan.me)  <https://www.linkedin.com/in/danny-lan>  <http://www.github.com/ddlan>

### SUMMARY OF QUALIFICATIONS

- *Languages*: Swift, JavaScript, Objective-C, Python, C++, HTML/CSS, Bash, Java, Kotlin
- *APIs and Frameworks*: Firebase, SwiftUI, Node.js, React, MobX, Qt, TeamCity
- Participated in open-source projects, have contributed to **Node.js**
- Interested in custom-built and impactful software solutions that provide a great user experience

### WORK EXPERIENCE

#### 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
- Had ownership of a new Image Registration module representing an entire user workflow for the API
- Reimplemented a Python matrix matching algorithm in C++, speeding up the process at least 64x
- Deployed app for **Windows**, **Mac** and **Linux** monitored by **TeamCity** CI with 98% coverage on new code

#### YAHOO/VERIZON MEDIA – SOFTWARE ENGINEER

Sunnyvale, CA Jan – Apr 2019

- Developed features for Analytics and Push Notification **Objective-C SDKs** for internal app development
- Designed and implemented flexible APIs for Yahoo Mail, Yahoo Finance, and Tumblr app teams
- Wrote **Bash** scripts for a Screwdriver.cd **CICD** pipeline to monitor relative file size and memory
- Optimized memory usage for the iOS analytics SDK, reducing the memory footprint by 15%

#### MARLENA BOOKS – iOS DEVELOPER

Kitchener, ON May – Aug 2018

- Worked with iOS team to create e-reader app focused on accessibility for individuals with dementia
- Built intuitive **UI** to complement the functions of the app using object-oriented principles in **Swift**
- Integrated **Firebase** Authentication, Database, Storage to manage users, data, and files
- Implemented serverless **Node.js microservices** for backend including emailing lists and validation

### PROJECTS

#### INCITE – EFFORTLESS CITATION GENERATOR

Sept 2018 – July 2019

- Built a **Chrome Extension** to cite websites in MLA, APA, Chicago, and Harvard format on the fly
- Used **React** to build an effective and intuitive interface with **MobX** to manage state
- Utilized a **web scraper** model to seek citation information and present it in a user-friendly format

#### NIGHTBALL – MOBILE GAME FOR iOS & ANDROID

Feb 2017 – Aug 2018

- Applied basic linear algebra to a physics engine to make an arcade game for **iOS** with 100+ downloads
- Leveraged SpriteKit and SwiftyStoreKit frameworks in **Swift** to build a robust game with IAPs
- Ported application to **Android** using Gamemaker Studio engine

### EDUCATION

#### UNIVERSITY OF WATERLOO & WILFRID LAURIER UNIVERSITY

Sept 2017 – Apr 2022

Candidate for Bachelor of Computer Science (BCS) (Waterloo) and Business Administration (BBA) (Laurier)

- Relevant coursework: Algorithms, Object Oriented Programming, Data Structures, Functional Programs

### AWARDS

- 2018 BDO New Venture Competition Semi Finalist – Top 32/300 in business pitch competition
- University of Waterloo President's Scholarship of Distinction – awarded for above 95% entrance average