Danny Lan

Computer Science and Business Administration

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SUMMARY OF QUALIFICATIONS

- *Languages*: Swift, Python, JavaScript, Objective-C, C++, HTML/CSS, Bash, SQL
- *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 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
- 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

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

- Currently working on an iOS social media startup with a pending application to Y-Combinator
- Designed **SwiftUI** frontend using an **MVVM** pattern and made use of **TestFlight** for rapid prototyping
- Utilized **Protobuf** and **Alamofire** for scalable communication with a Ruby backend running PostgreSQL

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

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, DB Management

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