

ELINA LUA MING

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Summary

I'm a highly-motivated self-learner and a fourth-year student at UCLA. I'm seeking for an iOS engineering part-time internship, and opportunities to collaborate in a team to build great products with meaningful social impact.

Education

UCLA June 2020
B.A. Political Science
(Concentration in Political Philosophy)

Fun Facts

I'm a competitive powerlifter, and I write philosophy.

Projects

NoteSnap

Jan. 2020 to Current

Winner: Most Innovative Product at QWER Hacks 2020

- An iOS application that solves the problem of the inability to index non-digital text.
- Built an iOS app in 5 hours that parses text from images using Google Cloud's Vision API.
- Implemented persistent storage and cloud storage to store texts as editable notes.
- Taught my teammate Swift programming and iOS theoretical concepts.
- Utilized: Swift, Google Cloud Vision API, Firebase, Core Data, Cloud Firestore.

Coconut Jelly

Oct. 2019 to Dec. 2019

A map-based event-sharing iOS application for micro-ecosystems for users to share events in their community based on geographical proximity.

- Designed an intuitive user flow, and implemented minimally aesthetic user interface components in dark mode for users to view and share events.
- Designed and developed backend application architecture to perform geo-queries, and perform create, read, update, and delete operations for events and images in cloud database.
- Implemented tag feature to enable users to filter relevant events within selected map region in real-time.
- Designed the project logo by transforming and distilling the project vision into visuals.
- Utilized: Swift, Cloud Firestore, Firebase, GeoFire, MapKit, Core Location, CocoaPods, Sketch.

Twitter Sentiment Analysis

Aug. 2019

An iOS application that informs the users of the general sentiment of a topic of choice on Twitter using facial expression emoticons.

- Trained a natural language processing machine learning model with labeled example tweets.
- Fetched and parsed the latest tweets on topics keyed in by the user using Twitter's API.
- Performed batch predictions and translated total score into emojis based on different facial expressions that represent the general user sentiments on the topic.
- Utilized: Swift, CocoaPods, Swifter, Twitter Developer APIs, CreateML, CoreML.

Experience

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Mountain View - Los Angeles

iOS Software Engineering Intern

Dec. 2019 to Current

- Collaborated with a team of engineers on a Machine Learning-based iOS application that syncs with a pair of smart shoe insoles.
- Designed and developed a UI component that allows users to perform audio track playback with play, pause, rewind, fast forward, and track progress slider features.
- Implemented posture correction using audio playback distortion, through manipulating audio pan value based on real-time posture prediction using a Machine Learning classifier.
- Redesigned UI features for the game view controllers to complement the Apple minimalist design.
- Refactored previous UI animation code to use the SpriteKit framework, integrating physics into the animations, and implemented the game logic.