Andy Liang

@ me@andyliang.me

🔗 andyliang.me

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TECHNICAL SKILLS

Languages	**Swift**, **Objective-C**, C, C++, Java, Kotlin, JavaScript, Python
Platforms and Tools	**UIKit**, **SwiftUI**, **Mac Catalyst**, Xcode, Swift PM, CocoaPods, Carthage, Realm
Design Tools	**Sketch**, Figma, Adobe XD, Adobe Photoshop

WORK EXPERIENCES

Apple
Jan 2021 – Present

Senior UIKit Frameworks Engineer — Cupertino, CA

- Developing system features for Apple platforms.

Apple
May – Aug 2019 / Jan – Apr 2020

UIKit & SwiftUI Engineer, Co-op — Cupertino, CA

- Collaborated with the Human Interface Design Team on refreshing and modernizing **UIPageControl**.
- Designed new **UIPageControl** image customization and interaction APIs for iOS 14.
- Implemented new Context Menu APIs for the **SwiftUI** framework in iOS 13.

Splunk>
Sep – Dec 2018

Native iOS, Software Engineering Co-op — San Jose, CA

- Architected, designed, and prototyped a business analytics Splunk iPad app using **Swift**.
- Iterated through many **UX design patterns** to take full advantage of the larger iPad Pro form factor.
- Developed internal SDKs using **Swift**, **VIPER**, and **CocoaPods** to modularize app-building process.

Yahoo! Inc. / Oath Inc.
May – Aug 2017 / Jan – Apr 2018

iOS Software Engineering Co-op — Sunnyvale, CA

- Developed the **next-gen streaming protocol** for the iOS Flurry Analytics SDK using **Objective-C**.
- Utilized the **Actor concurrency model** to achieve modular architecture for reduced SDK size.
- Implemented revenue analytics, custom app groups, and iPad support for the official Flurry app.

PROJECTS

Sigma Planner — iOS and macOS
Since Sep 2015

https://andyliang.me/sigma-planner/

- Developed a student task planner app with **Realm** and **CloudKit** data sync for iPhone, iPad, and Mac.
- Designed for students around the world with highly customizable schedules and preferences.
- Featured as "App of the Day" and reached Education Top Charts globally on iOS and Mac App Stores.

Blurry — iOS and macOS
Since Jun 2017

https://andyliang.me/blurry/

- Built an iOS and macOS (**Catalyst**) app that allows users to apply gaussian blur to their photos.
- Utilized **Grand Central Dispatch** to continuously process image blurring efficiently.

EDUCATION

Honours Bachelor of Computer Science
Sep 2016 – Dec 2020

University of Waterloo — Waterloo, ON, Canada

- *Honours Computer Science/Human-Computer Interaction Option (Distinction)*
- **Achievement**: Won **First Place** in contest for building most-optimized WLP4 (C-like) compiler.