

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
UIKit Frameworks Engineer

- Developing system features for Apple platforms.

Apple May – Aug 2019 / Jan – Apr 2020
[Internship] 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 **SwiftUI** shipping with the iOS 13.

Splunk Sep – Dec 2018
[Internship] 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
[Internship] 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

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