

Professional Development Experience

WW, formerly Weight Watchers (New York, NY) July 2019–Present

Primary iOS developer on the new-for-2020 Content Hub feature of the customer-facing WW iOS app, which presents a dynamic list of articles, videos, and audio content that can be customized per-user. Previously contributed to Studio, a native iPad app for WW employees and contractors to manage the in-person customer experience at WW locations.

- Created a majority of the Content Hub section of the WW Mobile app. Content Hub uses several of my favorite techniques for straightforward and maintainable iOS code. Network calls are composed of generic functions, where all the work is done through function composition in a services layer but the concrete types are specified at the call site. Complex UX behaviors are created by sequencing simple child view controllers. Views are configured with view models. Data from user actions is marshaled and passed through delegation. I even added an `@OmitsBadElements` property wrapper for decodable arrays to gracefully remove malformed content returned from the backend while logging actionable debug information.
- Built substantially all of Tally, which aggregates data from several sources to create per-meeting reports of factors affecting coach compensation. Tally uses child view controllers to encapsulate complex functionality and separate concerns. The header of the Tally report is designed to collapse when scrolled and uses four synchronized scrubbable property animators to smoothly scale and hide elements to achieve the desired look.
- Replaced unreliable button subclasses with a single styling function that applies the Studio trade dress with no subclasses. The styling function custom draws pixel-perfect backgrounds for buttons of any size. It is also accompanied by a suite of tests that verify pixel colors, allowing unit test coverage of details like border thickness and corner radius.
- Used a “lead by example” approach to increase the quantity and quality of documentation in the Studio app. I include documentation markup for every new type and member with an access level of internal or greater. I also include code samples in my doc blocks when appropriate. This has led to an increase in documentation markup submitted by my coworkers, and even a few cases of other developers including sample code.

Citi FinTech (Long Island City, NY) on contract from LTI May 2018–July 2019

Worked as an iOS developer on the Insights team of Citi FinTech. My roles included writing Swift for the Citibank iOS app, maintaining a Java endpoint, reviewing pull requests for other teams, and mentoring new iOS developers.

- Pinch-hit as a microservices developer to help our backend team. Added features and unit tests and fixed bugs.
- Created a new abstraction for iOS network calls in the Insights features, making heavy use of generics. Improved test coverage and code reuse while eliminating hundreds of lines of confusing and duplicative code. My networking abstraction is now used by three other teams.

Other Development Experience

TimerSwipe (alank.github.io/timerswipe) Independent Developer January 2016–June 2018

Designed and developed TimerSwipe, published in the App Store in January 2017: appstore.com/timerswipe

Other Work Experience

American Thoracic Society (New York, NY) Coordinator April 2014–February 2017

Global Advisors on Smokefree Policy (Summit, NJ) Program Manager 2011–2014 Consultant 2010–2011

Skills & Education

Swift, Cocoa Touch, UIKit, SwiftUI, Git, Jira, Rational Team Concert, interdisciplinary communication, and facilitation.

B.A., Drew University (Madison, NJ) May 2010

Philosophy major, Economics minor. 3.8 GPA. Summa Cum Laude.