

iOS APPS

Shortlist - Creator

07/2019 - PRESENT

<https://github.com/markhwong/Shortlist> | <https://apps.apple.com/app/id1480090462>

Created, tested and deployed a To-Do List enforcing limits on prioritised tasks built entirely with Swift using CoreData, XCTest with the Model-View ViewModel and Coordinator pattern. Firebase used to track global task tally. QR Code for gif demo

- Visualised statistics stored in CoreData to create a smooth line graph using a combination of UIBezierPath, UIView and CAShapeLayer/CALayer
- Wrote Unit Tests covering Core Data Entity functions for expected data input and output and expected accolades during the review phase of the application with XCTest
- Automated App Store process with Fastlane to manage and automate screenshots, Code Signing, Versioning and App Store/Testflight deployment
- Mirrored the state of the application from the iPhone to the Apple Watch with WatchKit/WatchConnectivity
- Incorporated Dark/Light mode, abiding to the iOS system preference



Everytime - Creator

11/2018 - 7/2019

<https://github.com/markhwong/EveryTime> | <https://apps.apple.com/app/id1454444680>

Created, tested and deployed a general purpose sequential interval timer built entirely in Swift using the Model-View ViewModel Pattern, CoreAnimation and Protocol Oriented Programming to support multiple themes

- Testing user input ensuring the input data are within expected parameters using XCTest framework
- Reflect and animating the current remaining time with a combination of CAShapeLayer and CAGradientLayer with masks
- Overlay a modal Settings Menu with UIPresentationController
- Leveraged Theming with In-App Purchases and receipt validation using Ray Wenderlich Tutorials as a guide

iOS PROJECTS

Unsplsh | <https://github.com/markhwong/Unsplsh> - URLSession, UITableView Prefetching, NSCache, JSON API for continuous scrolling. Images queued and loaded individually and queued with NSOperation

ReadyPlayer | <https://github.com/markhwong/ReadyPlayer> - Firebase realtime database and JSON with Codable

ToThePi | <https://github.com/markhwong/ToThePi> - Concurrency using Grand Central Dispatch

SimpleBAC | <https://github.com/markhwong/SimpleBAC> - UIKit, CoreData, CoreLocation, CoreAnimation and AutoLayout

OTHER EXPERIENCE

Co-Founder - pocketsquaretailors.com.au, Independent, 09/2014 - PRESENT

- Client facing consultations handling queries and providing guidance
- Created and maintained website
- Meticulous attention to detail using supplier's online ordering system
- Weekly research and update discussions with supplier representative

Assistant Carpenter, 23 Building Group, 11/2016 - 07/2018

- Worked directly with two Master Builders remodelling extensions, home renovations and new constructions
- Custom carpentry, framing, sanding, grouting, drywall, window/door installation, carpet and wallpaper removal
- Aligned and squared frames
- Following safety protocols and maintaining worksite

TOOLS

Git, Fastlane, Cocoapods, Python, Illustrator, Bash Script, Laravel, PHP, HTML, Javascript