

iOS Experience

Jan 2021 – **Sentry**, *Senior iOS Developer*, Remote, (FTE).

- Current
 - Application observability platform
 - **Stack:** Objective-C++, Swift, XcodeGen, GitHub Actions, SauceLabs
 - **Deliverables:**
 - **Sentry Cocoa SDK:** mobile app crash and performance monitoring
 - **Highlights:**
 - Integrating Specto's profiling feature into Sentry's Cocoa SDK
 - User Feedback widget: first user-facing UI shipped in Sentry Cocoa SDK
 - Wrangled sample and demo apps for developers and Sales team
 - Numerous improvements to CI and build system

Nov 2019 – **Specto**, *Senior iOS Developer*, Remote, (FTE).

- January 2021
 - Mobile app profiling SDK with shared C++ core between iOS and Android
 - **Stack:** Objective-C++, Swift, Go, Python, Jinja, Bazel, XcodeGen, GitHub Actions
 - **Deliverables:** Mobile app profiling SDK with shared C++ core between iOS and Android, Python scripts to generate scoped Xcode projects from Bazel targets (pre 'rules-xcode')
 - **Highlights:**
 - Python scripts to generate scoped Xcode projects from Bazel targets (pre 'rules-xcode')
 - Acquired by Sentry in December 2020

Jan 2019 – **Rightpoint Consulting**, *Senior iOS Developer*, Remote, (Contract-to-Perm).

- Oct 2019
 - Security-focused app and SDK (NDA)
 - **Stack:** Swift, SwiftGen, SwiftLint, Sourcery, CircleCI, Postman, Browserstack, Countly

Jan – Apr 2018 – **121nexus**, *iOS Developer*, Remote, (Contract).

- 2018
 - Medical inventory management app/SDK with barcode/QR scanning
 - **Stack:** Swift, AVFoundation, OpenCV, Firebase, cocoapods-keys, AWS
 - **Highlights:**
 - Replaced application UI and networking with their new SDK
 - Reimplemented major area of app with new UI and platform API
 - Added crash reporting (Crashlytics) and logging (XCGLogging)
 - Augmented and documented analytics (Firebase)
 - Assisted launches via iTunes ([121 Scan](#)) and another internal enterprise app

Dec 2016 – **Layer**, *iOS Developer*, Remote, (FTE).

- Jul 2017
 - In-App Messaging SDK
 - **Stack:** C/ObjC/Swift, CocoaPods, OCMock, Specta/Expecta, Jenkins, Rails, Thrift, WebSockets/SPDY, SQLite
 - **Deliverables:** ObjC SDKs for data and UI components, an embeddable app layer and fully-functional sample app
 - **Highlights:**
 - Rearchitected test suite to separate unit tests from integration/end-to-end tests
 - Helped streamline developer environment configuration (Rake, Gems, CocoaPods and git submodules)
 - Migrated old SPDY/Thrift architecture to WebSockets with rewritten Thrift specs
 - Implemented new auth and transport layer using [TransitionKit](#)

- Apr 2015 – **Twitter**, *Software Engineer*, Cambridge, MA, (FTE).
- Dec 2016
- Mobile app crash reporting and analytics
 - **Stack:** C/ObjC/Swift, Java/Scala/Clojure, Rails, React/Coffeescript, Storm/Heron, Cascading/Scalding, Graphite, Vertica/Zeppelin, Beanstalk/Kafka, Redis/Cassandra, AWS, TeamCity, Chef, Protobuf
 - **Deliverables:** Crashlytics/Fabric SDKs, Mac app and command line tools, front- and back-end maintenance and analytics, Unity iOS support
 - **Highlights:**
 - Streamlined build and release processes with TeamCity agents deployed via Chef
 - Added Bitcode and tvOS compatibility to SDKs
 - Standardized config of all Xcode projects and released the open source [FABConfig](#)
 - Maintenance of backend lambda architecture with on-call rotations
 - Pioneered new backend feature to cross-reference common crashes across apps and present developers with suggested fixes
- Jan – Apr 2015 **MC10**, *iOS Developer*, Cambridge, MA, (FTE).
- Companion iOS app for wearable peripheral with BTLE link
 - **Stack:** ObjC/Swift, CoreBluetooth, Android
 - **Highlights:**
 - Moved all app/demo code into Git repos, no previous SCM
 - Architected SDK and app codebases from the ground up
 - Built out greenfield app, in beta testing on my exit
 - Set up continuous integration and deployment with TeamCity and Fabric
 - Assisted adoption of Agile processes
- Jul 2013 – **Raizlabs Consulting**, *iOS Developer*, Boston, MA, (FTE).
- Dec 2014
- **Stack:** ObjC/Swift, Jenkins, TeamCity
 - **Deliverables:**
 - [Care.com](#): service seeker/provider matching (4 months)
 - iOS 7 redesign, with perspective zoom effect for a horizontally paged scroll view
 - Dynamic UI generation from server-supplied data
 - [B&H Photo](#): e-commerce (5 months)
 - Custom parallax scrolling of table view headers
 - Push notifications with deep linking
 - UniFirst: interactive enterprise sales catalog on iPad (8 months)
 - Drag and drop editing of clothing selections, with PDF report generation
 - [Invaluable](#): realtime high-end auction platform on iPad (1 month)
 - Paging of API result display in table/collection views
- Oct 2012 – **ODU Systems Lab**, *R&D projects*, Norfolk, VA, (Student Intern).
- May 2013
- **Deliverables:**
 - ChirpXM: location based social networking app (defunct)
 - Prototyped EMR iPad app for CHKD
 - **Highlights:**
 - Supervised two foreign exchange students
 - Facetime with onsite clients
- Aug 2012 – **Old Dominion University**, *Undergraduate capstone project*, Norfolk, VA, (Seminar).
- May 2013
- **Stack:** ObjC, OpenEars, MapQuest
 - **Highlights:**
 - Co-lead of 7 member team
 - 4 presentations given to visiting professors and industry executives
 - Sole developer of iOS component of total solution
 - Highest scoring project!

Nov 2011 – **Insight Therapeutics**, *Lead iOS Developer*, Norfolk, VA & Remote, (Contract).

- **Stack:** ObjC/Swift, MessageUI, Storyboards, CoreGraphics, CoreData, FMDB, SQLite, SSZipArchive, RNCryptor, cocoapods-keys, Trello, BitBucket
- **Deliverables:**
 - **ClotRx & DementiaRx:** reference e-pamphlets
 - Hybrid app with WKWebView
 - Searchable, bookmarkable HTML content extracted from PDFs
 - Interactive clinical surveys, print/email report generation
 - **Antibiotic Kinetics:** antibiotic dosage calculator
 - Ported from another developer's preexisting Android app
 - **eConsent:** HIPAA-compliant informed consent app for clinical trials
 - Interactive quiz-based presentation of study details
 - Signature collection and export to PDF
 - Interface with backend API to upload finished consents
- Multiple releases and design iterations of all apps

Teaching and Presentations

May 2018 **iOSDevCampCO**, *Colloquial Swift (45 min)*, Colorado Springs, CO.

- Presented findings from Colloquial Swift personal project (see entry in previous section)

Jun 2017 **CocoaHeads Boston**, *UIViewController Decomposition and UI Reuse (20 min)*, MIT, Cambridge, MA.

- Discussing strategies to separate responsibilities from UIViewControllers and a library of reusable UI components, e.g. animated transparent modal presentation with a close button

Jan 2017 **Boston Algorithms Meetup**, *HyperLogLog (20 min)*, Twitter, Cambridge, MA.

- Helped organized this initial meeting of the group
- Covered the theoretical workings of the HyperLogLog algorithm, with a copresenter giving a working demonstration

Jul 2016 **Girls Who Code**, *iOS Dev Session*, Twitter, Cambridge, MA.

- Part of GWC summer internship covering programming first principles to full-stack style development
- Designed and led iOS session where we built a Flappy Bird clone, introducing them to Xcode as an IDE, Interface Builder, Playgrounds and Swift

Mar 2016 **mDevCon**, *Command and NSOperation (45 min)*, Amsterdam, NL.

- Delivered presentation on the Command software design pattern, and NSOperation
- Introduced subclasses we open sourced at Crashlytics for asynchronous and compound operations
- Previously delivered at a lunchtime tech talk at Twitter, Cambridge, MA (Nov 2015) and CocoaHeads Boston meetup, MIT, Cambridge, MA (Dec 2015)

Oct 2015 **NeighborNest**, *Web Dev Session*, Twitter, San Francisco, CA.

- Community program to help advocate technology literacy
- Assisted in session where students worked on a Twitter clone, teaching functional programming concepts, Javascript, and some front- and back- end concepts