

Christian Valera

SOFTWARE ENGINEER · IOS DEVELOPER

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Work Experience

Medtronic

Northridge, California

SENIOR SOFTWARE ENGINEER

Dec. 2020 - Present

- Lead iOS development for adding support to new Continuous Glucose Monitor device to existing insulin pumps.
- Assume full ownership of features in all phases of design, implementation, unit and integration testing, documentation, deployment, and production troubleshooting.
- Contributed to system requirement software, user interface design document and software configuration management plans for Class II mobile apps.

Medtronic

Northridge, California

IOS SOFTWARE ENGINEER

Oct. 2018 - Dec. 2020

- Developed native iOS applications communicating with BLE insulin pump and cloud platform services.
- Designed and implemented secure transfer of secured keys from server.
- Developed help guide functionality which features offline capability, multiple language support and auto-updates.
- Worked with pump software team to resolve Bluetooth communication issues present in iPhones.
- Defined and performed feature design documentation and requirement definitions in compliance with FDA for Class II and Class III mobile apps.
- Implemented business requirements, working with cross-functional stakeholders to define use case and feature scope for mobile app.

ISBX

Los Angeles, California

FULL STACK DEVELOPER/MOBILE DEVELOPER

May. 2017 - Oct. 2018

- Technical lead of 3-5 mobile engineers for iOS projects.
- Designed mobile architecture and developed features for native Android and iOS applications.
- Maintained industry coding standards and best practices through code reviews and providing mentorship to other developers.
- Worked with clients in a tight feedback loop to validate product requirements.
- Collaborated closely UI/UX designers and project managers to deliver projects on-time and with the highest standard.

ISBX

Los Angeles, California

SOFTWARE DEVELOPER INTERN

Feb. 2017 - May. 2018

- Developed in Angular a document and file storage management web application. Use of third party seIntegrate Stripe's payment APIs to process payment transactions.
- Responsible for increasing code coverage for existing web applications.
- Collaboratively work with offshore teams to maintain project timelines and expectations.

Skills

Programming	Proficient: Swift, Objective-C — Familiar: TypeScript, Javascript, Java, PHP, HTML, CSS, JQuery
Frameworks and Libraries	UIKit, SwiftUI, CoreBluetooth, WebKit
Deployment	TestFlight, Provisioning Profiles, Code-signing, Fastlane, GitLab
Others	Localization, Human Interface Guidelines, Git, Jira, Agile Development

Projects

Wag!

ISBX

APP STORE - [HTTPS://APPS.APPLE.COM/US/APP/WAG-DOG-WALKERS-SITTERS/ID940734609](https://apps.apple.com/us/app/wag-dog-walkers-sitters/id940734609)

- Updated various UI elements to support new iPhones.
- Refactored legacy UI code to conform to Apple new design guidelines.

E-Tuner 4

ISBX

PLAY STORE - [HTTPS://PLAY.GOOGLE.COM/STORE/APPS/DETAILS?ID=COM.EDELBROCK.ETUNER.ANDROID](https://play.google.com/store/apps/details?id=com.edelbrock.etuner.android)

- Receive and sent data to a proprietary ECU via Bluetooth.
- Migrated UI components from QT to native Android in Java.
- Hands on experience with Android Data Binding and RxJava.

MiniMed Mobile US

Medtronic

APP STORE - [HTTPS://GITHUB.COM/CJVALERA/BRONCO-EXPRESS](https://github.com/cjvalera/bronco-express)

- Receives data from insulin pump and connected GST device using CoreBluetooth.
- Implemented secure communication with a cloud service to retrieve cryptographic keys.
- Used NSURLSession to download files from server and use iOS data storage guidelines to store documents for offline use.
- Developed a framework with integration of third party libraries using Carthage.

Bronco Express: Bus Routes

Personal

GITHUB - [HTTPS://APPS.APPLE.COM/US/APP/MINIMED-MOBILE-US/ID1533456796](https://apps.apple.com/us/app/minimed-mobile-us/id1533456796)

- Interfaces with a deprecated CPP Bronco Bus Express JSON-based API to access bus schedules and estimated arrivals.
- Utilized Codable protocol to decode JSON objects to Swift structures.
- Used third party library through CocoaPods.

Education

California State Polytechnic University, Pomona

Pomona, California

B.S. IN COMPUTER SCIENCE

Sept. 2012 - Dec. 2016