

## **Summary**

Experienced software craftsman with a wide variety of experience across industries, markets, and tools. Specializing in iOS and reactive system design and development.

Rapid problem analysis with the ability to work with clients and end users in developing and refining requirements. Good grasp of how each piece fits in with client's overall goals and needs and help them balance technical excellence with business objectives. Experienced and comfortable with agile development methods. Ability to learn and integrate new techniques, tools, and skills quickly. Able to mentor and assist development team members in developing their skills.

## **Selected Experience**

### **Walmart App (2020-present)**

Working with Walmart Labs team on new iOS eCommerce app built on a reactive, plug-in style architecture using Combine.

### **Sam's Club App (2017-2020)**

Working with Sam's Club team on iOS eCommerce app. Converting it to a reactive architecture using RxSwift, preparing to move to new SwiftUI/Combine frameworks, replacing legacy modules with new work, and writing new custom modules.

### **ASDA Universal App (2014-2017)**

Working with Walmart Labs team on iOS app for their UK subsidiary, ASDA. Converting the internal architecture of the app to be reactive using RxSwift, rewriting legacy components in Swift and RxSwift, and writing new modules using RxSwift.

### **Custom Universal App for Physical Therapists (2016-2019)**

Developing new medical app for therapists to develop individual treatment and exercises plans for physical rehabilitation patients. Synchronizing data between client, backend API, and a distributed database architecture based on Realm.

### **Home Power Generator Control and Status App (2016)**

Developing consumer app to control client's gas-powered generators via Bluetooth.

**Client App Maintenance (2010-present)**

On-going work with various clients to maintain and update existing apps.

**High-End Real Estate Development Sales Tool (2014)**

Developed interactive sales tool for a client's very large construction project.

**Mission Control Training (2013-2014)**

Developed iOS app and backend for a client's employee training business. It manages videos, assessments, and tracking and is built on Microsoft's Azure cloud services.

**MyFactor – Personal medical incident and injury tracking app (2013)**

Developed app for a client so their customers can track medically significant events which they can share with medical provider to receive advice and therapy alternatives.

**MedSnap ID – Medical app for prescription and drug identification (2012-2013)**

Developed data synchronization for a suite of medical apps. Helped client design backend API for synchronization, assisted with data security and system architecture.

**A variety of other custom iOS apps developed for clients (iOS, 2010-2013)**

**Designed and developed manufacturing tracking system (Java, 2006-2012)**

**DoD and DARPA projects researcher and developer (2003-2007)**

**Adjunct Instructor for various university computer courses (1982-2006)**

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**Development Experience**

iPhone, iPad, and iOS development	10+ years
Reactive architecture design and development	5+ years
Other mobile systems design and development	8+ years
Java Desktop and Enterprise design and development	15+ years
Multi-tier, distributed systems design and development	30+ years
Overall professional development experience	40 years

**Speaking and Teaching Experience**

Various conference sessions 2011-2014 (CocoaConf, 360iDev, D2Cincinnati)  
Regular presenter at CocoaHeads (Columbus, Cincinnati, Cleveland, Indianapolis)  
Co-organizer of Cincinnati CocoaDev  
Adjunct instructor, programming courses (Cedarville 1982-2006)

**Work Experience**

Independent	1998-present	Independent software craftsman
Synergy, Inc.	1996-1998	Software design and development
Rotman & Sjoquist	1988-1996	Extensive consulting and programming in a partnership
Cedarville College	1982-1996	Various roles ending with Asst. Dir. of Computer Services Adjunct Instructor, computer language courses
Independent	1980-1988	Custom software development for various businesses.

**Education**

B.A. Business Administration, Cedarville College, June 1982  
Computer Information Systems emphasis