

Ian McDowell

ianmcdowell.net

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319.853.8426

SKILLS

Software

Platforms: macOS, iOS, Android
JS: React, Angular, Backbone, jQuery
Version Control: Git, SVN
IDEs: Xcode, Visual Studio, IntelliJ
Databases: MongoDB, Redis, SQL
Creative: Illustrator, Sketch, Affinity
Operating Systems: macOS, Windows

Languages

Objective-C / Swift
C / C++ / C#
Java / Ruby
PHP / Python
HTML / CSS / JS
TypeScript
SQL

EDUCATION

B.A. Computer Science - Iowa State University 2013 - 2017

WORK HISTORY

Microsoft

Summer 2017 - Present

Software Engineer

Develop user-facing features for the Office for Mac & iOS team. Focused on mobile productivity, real-time collaboration, and document sharing & interaction.

Microsoft

Summer & Fall 2016

Software Engineer Intern

Developed and released a major update to the Microsoft AutoUpdate utility, used by millions of Office for Mac users. Learned about XPC services, launchd, and shipping mission-critical software & services on the Mac.

Microsoft

Summer 2015

Software Engineer Intern

Created a cross-platform mobile app for Microsoft Dynamics CRM using Xamarin / C#. Designed and implemented native UIs for iOS, Android and Windows.

Iowa State University

Fall 2014 - Spring 2016

IT Services - iOS App Developer

Working with a team of iOS Developers creating and updating MyState, Iowa State University's official mobile app.

Iowa State University

Spring 2014 - Fall 2014

Dept of Computer Science - Full-Stack Web Developer

Worked on various projects written in PHP. Rebuilt a TA Management system using JSP.

iOS / Android App Developer *Spring 2013 - present*

I have been working on various apps & libraries in my spare time, and you can see some of them in the Projects section to the right. Some components of these apps have been open sourced on GitHub.

PROJECTS

check out ianmcdowell.net for more details

TabView & TiltedTabView - iOS Libraries

Replicate the switching UI in Safari for iOS inside of any iOS app. Built using UICollectionView & iOS 11 drag and drop. Written in Swift.

Source - iOS App

Mobile development environment with git support, a code editor with syntax highlighting, and integration with GitHub and other online services.

rslash for reddit - Web / iOS Reddit Client

Created a service to browse reddit, with a redesigned UI. Includes a native iOS app. Built using Node.js and TypeScript on the web, and Swift and JS on iOS.

IMTreeView - iOS Library

Developed a Swift library for displaying collapsible tree structures inside of any UITableView.

IMRemoteImageSize - iOS Library

Allows a developer to retrieve the dimensions of a remote image without having to download the entire thing. Downloads the first few bytes of the file and parses the headers.

iMessenger - Chrome Extension / OS X App

Send SMS and iMessages from Chrome on any platform. Uses private APIs from the Messages app in OS X to send and receive messages.

Humanity - Web App

Developed an online multiplayer Cards Against Humanity clone, that you can play real time with friends. Developed in Javascript, using Node.js / Socket.io / React.js

TestFit - iOS App

Developed a native iOS app for a wheel marketing company. See what various wheels would look like on your car by snapping a photo of it and browsing the catalog.

MyDining - iOS / Android App

Created a mobile app allowing students to order from university dining on the go. I reverse-engineered the existing Flash-based site to retrieve data from its APIs.

iTunes Remote - Android App

Remotely control iTunes playback and volume, browse and search through artists, albums, and playlists, from an Android phone. Uses the Apple DACP protocol to communicate.