

Kevin Babcock

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Lead software engineer and architect, specializing in Android and Bluetooth LE (BLE) development. Additional expertise with iOS, SQL, RESTful Api's, and experience with Embedded C, to deliver cross platform, full stack connected device experiences. Passionate about the future of mobile and connected devices.

Expertise

Portfolio available on [GitHub](#)

- ▶ Developing for Android since 1.6 (API 4) with numerous published and B2B production apps.
- ▶ Android implementations using features that vary across devices and manufacturers such as sensors, audio/video, content providers, screen sizes, and Bluetooth.
- ▶ Thread safe local data storage using SQLite and maintaining integrity with external data providers.
- ▶ Deep knowledge of BLE and integrations on Android, with a strong understanding of idiosyncratic Android API's contrasted with the more unified CoreBluetooth on iOS.
- ▶ Designing and implementing API's that allow higher level access to Bluetooth in a simple manner.
- ▶ Engineering connected device firmware in Embedded C, interfacing with GPIO-integrated hardware, defining BLE GATT interfaces, and gauging stability via current signature analysis.
- ▶ Proficient Java programmer, pragmatically applying OOD to create elegant, easily maintained Android code.
- ▶ Leveraging open source libraries such as Retrofit and Dagger, unafraid to dive into and rely on foreign code.
- ▶ Capable iOS developer using both Objective-C and Swift to diagnose issues and implement new features.
- ▶ Strong relational database design skills focused on normalization, indexing, and SQL query performance.
- ▶ Developing and advocating practical, easily consumed RESTful Api's using HTTP standards, discoverable routing, and thoughtful resource definitions.
- ▶ Demonstrated leader on cross-functional teams, bridging a decade of experience with production firmware, mobile, web, and server software to collaborate across engineering disciplines.

Android	Bluetooth LE	iOS	SQL	REST
Embedded C	Java	C#	Javascript	JS / HTML / CSS
Multithreading	Full-text Indexing	Cloud Platforms	Open Source	Git

Experience

LEAD SOFTWARE ENGINEER - KINDARA, BOULDER, CO - 2015-PRESENT

Lead software engineer guiding company wide efforts to develop, test, and release Wink for use with Kindara's Android and iOS fertility tracking apps that have a combined 250,00 active installs. Completely re-engineered Wink firmware and Bluetooth LE integrations on both apps to create a polished experience with maximum battery life. Currently developing a new Android app that will reach a user base of nearly 40,000 installs.

INNOVATION ARCHITECT - AMADEUS CONSULTING, BOULDER, CO - 2014-2015

Architect, engineer, and innovator specializing in mobile development using Android, iOS, and Bluetooth LE, and building RESTful backends with ASP.NET Web Api and SQL Server. Responsible for training and leading Amadeus' Android developers and introduced REST Api standards as a senior member of the innovation team.

INDEPENDENT SOFTWARE ENGINEER - SELF EMPLOYED, BOULDER, CO - 2009-2013

Architect, engineer and manager of projects from conception to deployment using Android, iOS, ASP.NET MVC, and SQL Server. Clients include Amadeus Consulting, Insomniac Design, and Consumer Insights Group.

SOFTWARE DEVELOPER - AMADEUS CONSULTING, BOULDER, CO - 2008-2009

Full stack developer across myriad industries using the .NET Framework, primarily ASP.NET and SQL Server.

SOFTWARE DEVELOPER - SAGE, GAINESVILLE, FL - 2005-2008

Began in testing automation and finished as a key developer on electronic health records desktop software.

BSBA COMPUTER & INFORMATION SCIENCES, UNIVERSITY OF FLORIDA, CUM LAUDE 2005