

# David Stites

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## Experience

### Apple, Software Engineer, 2014 — Present

Architected, debugged, performed analysis of, implemented and documented location-based and motion-based features, technologies and systems on iOS, macOS, watchOS and tvOS, with an emphasis on machine learning.

### Apple, Privacy Engineer, 2012 — 2014

Designed, performed analysis, and audited shipping and pre-release features and systems. Partnered with development teams to protect customer privacy while delivering amazing experiences for customers. Advocated and educated Apple teams about privacy-related technology issues, and then helped them implement best practices.

### EW Defense Systems, Software Engineer, 2010 — 2012

Designed, developed, tested and maintained DSP firmware code for RF signal detection, collection and analysis of electronic counter measures (ECM) for the Air Force. Implemented Java front-end interfaces for operator control of system.

### Coupious, Software Engineer, 2009 — 2012

Developed the *Coupious* application for iOS, an app that gives the user on-demand, location-based, instantly redeemable coupons.

### Hewlett-Packard, Firmware Engineer, 2007 — 2009

Developed support for RAID6 and solid state drives within firmware for enterprise class storage arrays. Triaged and fixed defects. Created and developed tools to assist with testing.

## Education

Bachelors, Computer Science, Purdue University, 2007

Masters, Computer Science, University of Colorado, 2012

## Skills & Languages

Objective-C (Cocoa & Cocoa Touch), C, Python, bash scripting, SQL, Git

## Publications & Media

2014 — WWDC Speaker, Session 715, "User Privacy on iOS and OS X"

2013 — WWDC Speaker, Session 714, "Protecting Your Users Privacy"

2012 — "Preventing User and Hardware Tracking in Mobile Devices"

2011 — NBC & ABC Southwest Airlines Mobile App Security Vulnerability

## Patents

10,200,810 — Proactive actions on mobile device using uniquely-identifiable and unlabeled locations

10,117,046 — Discrete location classification

10,091,303 — Using in-home location awareness

9,529,500 — Application recommendation based on detected triggering events

9,600,689 — Variable anonymous identifier value