Jacob **Farkas**

SENIOR SOFTWARE DEVELOPER

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Summary

I am a senior software developer with over a dozen years of professional experience shipping software at a global scale. I have deep experience in API design, solving client data synchronization problems, and developing large production code bases.

I love finding the answer to a problem and I'll go all the way through the stack until I have a solution. I have an eye for details, and I'm always looking for a way to make life simpler by creating a tool. I care strongly about user privacy and security.

Work Experience

Apple, Inc
Cupertino, California

SENIOR SOFTWARE ENGINEER
July 2005 - May 2018

- Developed software and APIs that shipped in twelve major iOS software releases.
- One of the most prolific bug writers at Apple with over 10,000 bug reports written.
- Presented three times on stage at the Apple Worldwide Developers Conference (2014 - Session 231, 2016 - Session 226, 2010 - Session 129).

☁ CloudKit
2012 - 2018

CloudKit is an API that enables applications to easily access and store custom structured data and large files on the iCloud servers.
CloudKit serves as the backend for iCloud Photo Library, iCloud Drive, Notes, and many App Store apps. As of 2016 there were 782 million iCloud users.

- Co-creator of the CloudKit API and code base.
- Focused on client-side encryption features. Ensuring user privacy and security was a top goal for the project.
- Designed and implemented sharing features, which required extensive design work between server and client teams.
- Maintained an excellent relationship with the CloudKit server team to design and implement features.
- Worked closely with many teams inside and outside Apple to support their use of the CloudKit API.

📅 Calendar Sync
2009 - 2015

- Created a calendar synchronization daemon for the iOS Calendar app using the open CalDAV standard.
- Added scheduling and sharing support on iOS.
- Participated in the CalConnect working group and attended numerous interop meetings to ensure iOS compatibility with other CalDAV clients and servers.
- Worked closely with server engineers both within Apple and from other companies.

↻ iPhone Backup
2008 - 2011

- Wrote a service to back up user data from iPhones to iTunes.
- Added support for encrypted backups and backing up App Store apps.

📱 iPhone
2006 - 2011

- Worked on the initial creation of the iPhone, contributing code fixes, tools, and bug reports across the entire project.
- Developed a synchronization service for Contacts, Calendars, Bookmarks, Mail Accounts, and Notes between an iPhone and desktop computer.

🔄 Sync Services
2005 - 2006

Sync Services is the OS X API for synchronizing calendars, contacts, and other data with phones and .Mac.

- Wrote and maintained unit tests, screened bugs, and contributed code fixes.

Education

California Polytechnic State University, San Luis Obispo
San Luis Obispo, CA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
June 2005

- 🌐 Developed embedded software in C for the CP4 cubesat, launched April 2017
- 🐧 President of the Cal Poly Linux Users Group
- 🖥 Built a 10 node supercomputer cluster for the UCSC Astronomy Department

Skills

Languages	Objective-C, C, Swift, Python	**Technologies**	CloudKit, sqlite, Protobuf, WebDAV
Platforms	iOS, macOS, Linux, OpenBSD	**Tools**	Xcode, git, lldb, vim, LaTeX, Docker, bash