

Nick Brosnahan

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Summary

- Adaptable problem solver with experience in software cultures from early-stage startups to multi-national corporations.
- Effective team leader with strength in forging relationships and improving communication between groups.
- Practical software developer with focus on creating and continuously improving deployed software within available constraints.

Experience

Senior Software Engineer — Nest Real-Time Services

Google (2014 - Present)

- Selected for architecture team developing next-generation Nest ecosystem.
- Developed services support for provisioning of future Nest devices.
- *Technologies: Scala, Weave, MySQL, Cassandra, Docker, Jenkins, Git*

Personal Sabbatical — Paris, France (2013 - 2014)

Technical Lead — iCloud Account Services

Apple (2009 - 2013)

- Responsible for the architecture, design, development, and support of iCloud account services from initial deployment through first developer release and customer go-live. Managed growth up to 317M+ users.
- Led a five-person team to build features for initial setup and configuration of iOS/OSX devices as well as iCloud preference panels for iOS/OSX/Windows.
- Built high-performance identity and token authentication service for all inbound icloud.com requests. Developed service features for iCloud Keychain escrow and recovery, security code challenge, and SMS verification.
- Managed security and privacy issues involving identity and account management, user data collection and storage, email verification, password strength and resets, device verification, multi-factor authentication, single-sign-on, terms of service changes, as well as legal requirements like COPPA.
- Built features for MobileMe OSX preferences panel and AOL chat. Enabled MobileMe migration to iCloud and provided features for MobileMe shutdown.
- *Technologies: Java, Netty, Ruby, Sinatra, Cucumber, Linux, Apache, Memcached, Oracle, Cassandra, Subversion, Git, OSX, iOS*

Senior Software Engineer — Playlist.com

Project Playlist (2009)

- Responsible for website that had 1.4M visits and 12M page views per day. Developed infrastructure for search and partner integration.
- *Technologies: CentOS, Apache, Memcached, PHP, Python, MySQL*

Technical Lead — Podcast Producer

Apple (2006 - 2008)

- Created a tentpole Leopard Server feature on a tight schedule. Responsible for the architecture, design, development, documentation, testing, and integration of multiple components within OSX desktop and server.
- Implemented Podcast Producer server, video recording agents, administrative plug-ins, and various command line tools.
- *Technologies: OSX, RubyOnRails, RubyCocoa, ObjC, QuickTime, Quartz Composer, OpenGL, Apache, Xgrid, Open Directory, Kerberos, SQLite*

Senior Software Engineer — Apple Store Online

Apple (2004 - 2006)

- Managed worldwide OS/hardware migration for main web application, improving page serve rates by 18x. Improved reliability of Apple Store order pipeline by monitoring order creation and credit card authorization rates using Nagios.
- Developed Apple Store gift card integration and reduced global credit card fraud rate by implementing additional payment system fraud rules.
- Created Apple Store development standards and infrastructure focus groups, performed architectural review of new features, and created change control process to manage complexity and frequency of operational changes.
- *Technologies: OSX, WebObjects, Java, Apache, ObjC, Oracle, Nagios*

Principal Software Engineer — Memeo AutoBackup

Memeo (2004)

- Member of a four-person, self-funded startup building a simple, automated backup system on the Windows platform.
- Responsible for product definition, development, investor demonstrations, and website operations.

**Staff Software Engineer — QuickBooks Online Edition
Intuit (2000 - 2004)**

- Responsible for developing reporting features for ten releases including filtering, display options, Excel export, and email delivery. Created dynamic, user-customizable home page.
- Built monitoring and statistics tools to track reporting performance, customer acquisition, and usage patterns to reduce load and provide better forecasting of revenue and operational capacity requirements.

**Software Engineer — Castanet Product Suite
Marimba (1997 - 2000)**

**Engineer/Scientist II — Server Solutions
Apple (1994 - 1997)**

**Application Developer — Order Entry Application
Oracle (1992 - 1994)**

Education

B.A., Computer Science — Dartmouth College 1992