

Daniel D Grassi

Software Developer/Architect

Resume

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Experience Summary

Software Engineering:	Apple MacOS Cocoa, Objective-C/C/C++, XCode	14 years
	Apple iOS (iPhone/iPad) and CocoaTouch	7 years
	MySQL, SQLite, Python, XML, HTML, CGI, Assembly, Shell, YACC, Fortran	20 years
	ATT Unix, Linux, OS X Darwin, Mac OS (legacy)	
Professional Interests:	Refactoring, UML and Design Patterns	
Conferences:	Apple WWDC (World Wide Developer Conference) 2003 through 2013	11 years
Development Areas:	Mass market consumer applications	12 years
	Project architecture	20+ years
	Kernel I/O device drivers, userland device drivers	20+ years
	Database design	15 years
	Cryptographic design and security risk assessment	5 years

Zaph, LLC.

Position: 2008 – present

Owner

Highlights :	Development of several iPhone apps currently in the Apple App Store
Selected iPhone Applications :	<p>Hurricanes: Tracking and current storm information aggregation</p> <p>Lap Speed: Calculates speed per lap given a track length.</p> <p>Crazy Sage: Creates crazy proverbs by randomly mixing two proverbs together.</p> <p>CardKing: Provides loyalty card scanning and access on an iPhone.</p> <p>Citrix Receiver: provides the same functionality as the PC/MAC version.</p> <p>Scoptec: A cognitive development educational program aimed at pre-school children.</p>
Citrix Inc.	Member of the Cloud.com team Development of resumable file transfer, code injection into an Apple application to provide additional features.
JM Family	Development of several inhouse iOS applications including a twitter-like app and auto action evaluation application.
Marware Inc.	Development of ProjectX, a project management application, Cocoa with CoreData
Platforms, Technologies and Tools	iPhone API, Cocoa API, Mac OS X, Objective-C, Xcode,.

Lexar Media, Inc.

Permanent Position: 2002-2007 - 5-1/2 years

Senior Software Architect

Commercial Products:

SafePSD S1100: Enterprise level secure removable flash storage through access control and hardware on device encryption. Implemented OS X access API and libraries, user application and auto-launch daemon.

Image Rescue 1, 2 & 3: Application for Apple Macintosh that recovers images from damaged or erased flash cards. Responsible for the design of recovery algorithms, plug-in extensibility for image formats and code implementation.

MSC Lock: A new USB lockable storage specification. Technical contributor to the specification.

Active Memory: Method to provide meta information that is persistent across complete flash memory card data erasure..

LockTight: Secure flash memory card, camera and reader system. Architect of the security architecture covering the camera, memory card, card reader user and administration applications. Implemented the OS X applications

SafeGuard 1 & 2: Secure removable flash drive security through access controls or data encryption.

Device Drivers:

Kernel based SCSI vendor specific command I/O device driver, kernel based AES encryption driver, userland USB vendor specific command device driver - PowerPC & Intel

In House:

Created a fully automated one click build system from compile to installer. Developed a bug tracking system, developed a prototype file archive and retrieval system. Developed a Python program to convert Flash memory card firmware assembly code from 8085 to 186.

Platforms, Technologies and Tools:

Mac OS X 10.1-5, Xcode C/Objective-C, Interface Builder, Cocoa API/Framework, user-land and kernel I/O device drivers, cryptography, installer and build system.

IBM Contract Position: 2001 - 9 months **Senior Software Engineer**

Highlights: **ViaVoice** voice recognition. Member of the team that created the OS X implementation, MacWorld 2001 Best of Show winner.

Platforms, Technologies and Tools: Mac OS X 10.0-1, Project Builder C/Objective-C, Interface Builder, Cocoa API/Framework, installer and build system.

Medifacts at FDA Position: 1994-2000 - 5-1/2 years **Senior Software Engineer**

Highlights: ABPM CRADA: Project at the Cardio Renal Division of the FDA to study ABPM capabilities. Involvement included database design and creation as well as custom analysis and visualization applications. Interactive program to view experimental data, real-time high-speed data acquisition

Platforms, Technologies and Tools: Mac OS 7, Metrowerks CodeWarrior C++, MPW, Classic Mac Toolbox API.

CSX Technology Contract Position: 1992-1994 - 2 years **Senior Software Engineer**

Highlights:

Design and development of several customer service applications for railroad operations. Macintosh, MPW, SQL, C++, Object Pascal, screen scraping, CICS sessions.

Platforms, Technologies and Tools:

Applied Computer Sciences

Position: 1988-1992 - 4 years

Senior Software Engineer

Highlights:

Bethlehem Steel Corporation: FORTRAN subroutine package to interface a MODCOMP minicomputer with Rosemont MVCU/II PIO hardware.
SIDOR: Distributed network of 11 MODCOMP super-minicomputers controlling Basic Oxygen Furnaces and Dual Slab Casters.
Gulf States Steel: Continuous caster supervisory control system and solidification and chemistry quality models.
Modular Computer Systems: TCP/IP group Leader, development of embedded Telnet server, async communications unix device driver, member of Real-Time unix TCP/IP attached processor port.

Platforms, Technologies and Tools:

MODCOMP computer systems, assembly, FORTRAN, AWK, unix, TCP/IP.

Modular Computer Systems Staff

Position: 1984-1988 - 3 years

Member Technical

Highlights:

Ported the MAX IV file manager to MAX32, designed and implemented a superset of the MAX32 file manager for a unix meta port, designed a file manager management caching scheme for MAX32, analysis of file manager performance. Design and implementation of enhancements to the file manager user interface, design of the file manager data chaining implementation. Definition of the user interface requirements between realix (MODCOMP's unix) and the underlying MODCOMP MAX32 operating system. Design and implementation of the operating system symbolic debugger.

Platforms, Technologies and Tools:

MaxIV, Max32, unix file manager architecture, Assembly, XPL

Organizer for CocoaHeads and Cocoa Developers group in Fort Lauderdale CocoaHeads

Presentations Given:

Cryptography in iOS and OSX

Grand Central Dispatch

Cocoa Blocks

Coding "Best Practices" for developing code

Regular expressions including there use in iOS 4

Computer memory, allocation, usage and pitfalls

OSX and iOS reference count memory management

Unit Tests with Xcode 4.x

OCMock in Unit Test with Xcode 4.x

Xcode 4.2 and the features it brings including better refactoring and ARC

Git, Xcode 4.2 integration and remote repositories

CGPath, UIBezierPath and transforms

Finding mathematical solutions by numeric algorithm

TDD demonstrations of the Stack, Roman Numeral and Bowling Katas

Public key cryptography: Diffie-Hellman, RSA, Certificates, PKI

User Interface Design

UX — Designed by Raccoons

Sniffing The Wire – Network Analyzers

AF477 — UX and Errors

Developers — Professional or Artist

Git — Getting Started & Using

Understanding Retain Count in Objective-C

TDD – Test Driven Development

Education and Research

North Carolina State

Electrical Engineering

University of Pennsylvania

Computer Science, graduate courses in OS internals and language design.

Marine Biological Laboratory

Research Assistant, 1988 - 1999

Recent Conferences Attended

NSConference

Reading/Leicester, England, 2011 - 2014

mdevcon

Amsterdam, Netherlands, 2012 - 2014

ConveyUX

Seattle, February 2014

CocoaConf

Boston, October 2013

ACM MobileHCI

Munich, Germany, August 2013

WWDC

San Francisco 2003 - 2013

NSConference

Reading/Leicester, England, 2011 - 2013

CocoaConf

Washington DC, 2012

ACM Turing Awards

San Francisco, 2012

Voices That Matter

Philadelphia, 2010

360 MacDev

Denver, December 2010

CocoaConf

Columbus, 2010

Mac Tech

Los Angeles, 2010