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Summary

I have been a software developer since 1982 and an independent contractor/consultant since 1992. For the past several years, I have focused on two areas of development: mobile development with iOS and Android and web development with Ruby on Rails.

I conceived and implemented the TRX FORCE app — the 12-week conditioning program designed for the US Military — on both iOS and Android — which appeared in the Apple "Strength" commercial. In addition, I have collaborated on the Norton Online Backup iOS app and I built an app named "Circle 8" that helps tourists find their way around Sunriver, OR and its 33+ miles of bike paths. Another project was a trifecta of Rails, iOS, and Android development showcasing how to "Live Like a Local" when visiting the Hotel Monaco DC. I have also implemented Android versions of Circle 8, Analog Analytics, and PEAR Sports (Bluetooth LE heart-rate based real-time coaching). For Star Wars Celebration in Anaheim, CA in April 2015, I implemented an iBeacon-based "Scanner" app that displays "trading cards" for each character scanned. I have been working with iBeacon/AltBeacon technology on iOS, Android, and Linux for Radius Networks for the past year.

I discovered Ruby on Rails via the Java Posse podcast when I was doing Java EE development for Symantec circa 2006. I have collaborated on numerous Rails apps since then including Norton Online Backup for Symantec and Hubbub Health for Regence. I am an alumnus of the Pragmatic Advanced Rails Studio as well as five RailsConfs (2007-2011) and two Ruby on Ales conferences (one of which I was a presenter).

Prior to 2007, my focus was the design and implementation of Java EE applications using BEA WebLogic, ATG Dynamo, Tomcat, IBM WebSphere, and JBoss with Oracle as the database. During this time, I served as an architect and implementor for Java EE applications for Symantec, AT&T Wireless, Sun Microsystems, Stanford University, and New Vine Logistics. Prior to Java EE, I was a C++ application and database developer for Apple, Taligent, and Babcock & Brown.

In addition to decades of practical experience, in 1988 I earned my bachelor's degree in computer science from California Polytechnic State University at San Luis Obispo, California (Cal Poly, SLO).

Current Focus: • iOS • Android • Mac OS X • Ruby • Rails •

Experience

Mobile Platforms:
iOS
Android

Desktop Operating Systems:
Mac OS X
Linux

Application Servers:
Ruby on Rails

Language Highlights:
Objective C
Swift
Ruby
Java
SQL

Some Companies I Have Worked For

Apple Computer
Sun Microsystems
Stanford University

Symantec
Fitness Anywhere / TRX
Taligent

AT&T Wireless
Radius Networks
Hotel Monaco DC

Projects

Radius Networks (Washington DC)
6/14 to present
iOS and Android app and framework development to support proximity-based services using iBeacon and AltBeacon technology.

Circle 8 (Sunriver, OR)
9/11 to present
iOS and Android apps providing map-based information to visitors to Sunriver, Oregon including points of interest, bicycle paths, and landmarks. Currently removed from the App Store pending a complete rewrite in Swift and updated functionality.

TRX / Fitness Anywhere (San Francisco, CA)
6/12 to present
Conceived and implemented iOS and Android app versions of the TRX FORCE 12-week fitness program. Key features of the apps include: SQLite database (Core Data implementation on iOS) for program and workout information, exercise reference videos, exercise timers, and in-app purchasing.

PEAR Sports (Solana Beach, CA)
6/13 to 11/13
Implemented Android app version of the existing PEAR Sports app for iOS. In addition to extensive user interface programming, the app required communication with a Bluetooth Low Energy heart rate monitor as well as web-based API calls.

Hotel Monaco (Washington DC)
8/11 to present
Rails, iOS, and Android Development. Implemented a Rails back end and iOS and Android apps to provide hotel-centric services (reservations, information) as well as "Live Like a Local" map-based awareness of local attractions and businesses. iOS app was recently updated to support iPhone 5 and iOS 7.

Analog Analytics (now part of Barclaycard) (Portland, OR & San Diego, CA)
10/11 to 7/12
Android Development of white-labeled daily deals app.

Uncorked Studios (Portland, OR)
7/11 to 8/11
Android Development. (Details confidential.)

SwapDrive / Symantec (Washington DC)
3/07 to 7/10, 2/11 to 5/11
Independent contributor to various applications using Ruby on Rails, Mac OS X, and iOS platforms, most notably Norton Online Backup. Reimplemented existing file upload and email web site using Ruby on Rails. Provided ongoing technical and best practices advice to in-house software development team.

The Regence Group (Portland, OR)
10/08 to 1/11
Provided mentorship and best practices consulting to a group of new Ruby/Rails engineers on a Rails 3 project. Helped the team to learn and embrace behavior-driven development using Cucumber and RSpec.

Implemented internal proof-of-concept iOS app involving interaction with in-house web services. Implemented public iOS app for determining the ability to use a Health Savings Account to pay for a particular medical expense. Used 3rd party vendor data and a local SQLite database (via Core Data) on the device.

Show of Hands (OR)
2010
Took over iOS app development from the original developer. Implemented new features in the polling application and a universal version of the application that also runs on iPad.

Symantec Corp. (Cupertino, CA / Springfield, OR)
6/04 to 2/07
Architect/tech lead providing leadership and implementation for the on-line platform licensing team in the Consumer Products and Service division. Technologies include Java EE: WebLogic, Tomcat, Struts, and web services. Previous position at Symantec in IT was as senior architect guiding post-merger development of global web site redesign and reimplementation. Technology stack was a mix of BEA WebLogic and ATG Dynamo. On previous project, assisted in knowledge transfer from vendor, solved major, severe, and insidious technical problems, and mentored development team members. Additionally, sat on the Enterprise Architecture council involved in enterprise-wide technology decisions.

AT&T Wireless / AWE-Direct (Redmond, WA)
8/03 to 3/04
Senior architect advising development of the AT&T Wireless consumer sales and on-line customer support website functionality on ATG Dynamo. Experience with ATG Commerce, Portal, and Publishing. Also implemented repository-level encryption.

MissionFish / eBay Charity Giving Tool (Washington DC)
2003-4
Consultant providing experience regarding the eBay API. Implemented a Java interface to the eBay API.
Also implemented encryption for sensitive user data using Java Cryptographic Extension

New Vine Logistics, Inc. (Oakland, CA)
6/01 to 7/03
Senior architect guiding a group of engineers in the development of an enterprise web services application.
Technologies include: J2EE, EJB, SOAP, XML, Oracle, Java. Also, design and implementation of a Java
interface to the eBay API for listing and fulfillment of wine sales on eBay.

Pacific Analyst (Philippines / Hong Kong)
6/99 to 3/01
Provided expert guidance to team of mostly junior Java engineers. Also responsible for design and
implementation of web site to query and present XML files (Hong Kong company prospectuses and annual
reports) using Oracle 8i, Java, enhydra, Apache Cocoon, XML, XSL, and WAP.

Petstore.com (Emeryville, CA)
7/99 to 3/00
Integration of existing Microsoft Access product data with ATG product data (Oracle 8i, PL/SQL)
Implementation of messaging between ATG web site and Yantra warehouse system (Java, XML)

Inforay / Database Tools (Netherlands)
10/98 to 2/00
Various Java user interface prototypes developed using Java and Swing.

Stanford University
2/98 to 3/00
Design and implementation of a relational database middle tier using EJB Session Beans on WebLogic with
Sybase.

Sun Microsystems, Inc. (Menlo Park, CA)
4/97 to 11/98
Development of Java front end applications to an all-digital television studio. JDK, JFC (Swing), RMI, and
CORBA for device interaction.

Apple Computer, Inc. (Cupertino, CA)
4/96 to 9/96
Design and implementation of graphical editor for High Level Toolbox (MacOS 8/Copland effort) user
interface objects using C, C++, and SOM. Implementation of ResEdit 3.0 features.

Taligent, Inc. / Software Joint Venture Apple/IBM/HP (Cupertino, CA)

4/94 to 12/95

Design and implementation of Data Access Toolkit

Extended the CommonPoint document framework to provide access to SQL databases.

Elements of database access (e. g. the data store, user information, query) became interface objects which could be directly manipulated by the user.

Babcock & Brown, Inc. / Investment Banking (San Francisco, CA)

4/96 to 6/97, 9/88 to 6/92

Management and development of migration/reimplementation of existing Sybase front end applications from 4th Dimension to PowerBuilder 5.0 on Macintosh and PC. (This effort involved not only PowerBuilder development but also management of a team of contract programmers.)

Design and implementation of (then) state-of-the-art global network of Macintoshes, PCs, and Suns

Seamless file transfer between different operating systems

Transparent delivery of electronic mail across different mail systems

International IP and AppleTalk routing using leased lines and X.25 networks

Migration from thin ethernet to twisted-pair (10BaseT)

Database development for decision support systems and office coordination

Client / Server implementation using desktop computer clients and Sybase and Oracle RDBMS

3GL and 4GL application development using the latest object-oriented techniques

Migration of database applications from 4th Dimension/Sybase/Macintosh to PowerBuilder/Sybase/Windows NT.

Design and implementation of internal web server

Proponent, Inc. / Database Tool Development (San Francisco, CA)

6/92 to 3/94

Leading-edge database tool development for Sun and NEXTSTEP computers

Object-oriented design, implementation, and testing of the Proponent database tool

Software development management

Sales and customer support

Product demonstrations at customer sites and expositions

On-site consulting for customers with special projects

Systems Applications International (San Rafael, CA)

12/93 to 6/94

Fugitive emissions software development and consulting

Evaluation of relational database platform for existing and future development

Prototyping of user interface under Windows 3.1 using Visual Basic

(Professional industry experience extends to 1982.)