

professional summary

Accomplished information technology professional currently focused on application and framework development for the Apple mobile and TV platforms. More than 35 applications released to the App store based on development work, plus a video SDK supporting a million+ users and millions of streaming video sessions (live/recorded) for two major cable companies, and dozens of enterprise apps to support development of the video SDK and the set-top cable boxes services.

skills

- iOS/iPadOS/ tvOS Software Development
- HLS & DLNA Media Streaming
- App Design
- Systems Analysis
- Database Design
- IT Leadership and Consulting
- IT Strategy & Architecture
- New Technology Assessment
- Project Management
- Speaker & Advisor

ios/ipados/tvos top proficiencies

- Objective C, Swift, C, C++
- Xcode, Storyboard, SwiftUI
- GIT, Jira
- Debug and Release Management
- Logging, Debugger, Tracers, Instrumentation
- Video/Audio Frameworks
- UI Frameworks
- Database Frameworks
- Networking Frameworks
- Multithreading Frameworks

accomplishments history

Co-Founder

Crazed Kitty Software

2009-Present

San Diego, California

- Enhanced and developed a streaming video technology Software Development Kit for Arris and their customers Verizon and Frontier Communications. SDK facilitates a new set of video delivery services using DLNA within an HLS player. Responsible for the entire SDK lifecycle from design, source control, coding, and distribution to the final client. Developed a series of enterprise testing apps for the SDK used by server platform teams world-wide that acts as the gold standard for implementation of the SDK. Provided ongoing SDK support to client development teams and the Arris platform teams. Worked with Android teams to ensure both mobile platforms delivered consistent and high-quality performance. Arris 2013-19
- Co-invented two patentable video technologies to convert DLNA video streams to HLS in encrypted and clear content environments with DTCP digital rights management for Arris and their customer Verizon. One patent has been granted. The second is patent-pending and near the end of its approval cycle. Arris 2015, 2016
- Completed the GeoViewer Mobile iPad app, an enterprise geodatabase app integrating ESRI mapping technology with native iOS database, visualizations, and networking technologies focused on water management districts infrastructure maintenance. Created an offline ESRI mapping technology before the vendor did to allow this app to work without server access. Nobel Systems 2012
- Developed an API for connecting HTML/JavaScript with native iOS controls, created a mobile development/support strategy to expand internal services, evaluated app architecture, functionality, and design, and trained a mobile app development leadership team. UnitedHealthcare Group 2012
- Designed an iOS app architecture to produce a User Conference Apps specific to the event, more than 30 events per year. Integrated ESRI mapping technology, new REST interface for conference schedule and resources, and developed a calendaring database and interface. Trained the development team, defined requirements and deliverables from server and graphics resources, and framed an Android integration strategy. Launched the first four apps on-time and in just 70 days. ESRI 2011
- iOS application complete performance and code review to identify performance issues and required code modifications to correct crash and battery impact for a social networking location app. Pearescope 2010

- Created four applications previously distributed in the Apple AppStore with downloads into over 100 countries. 2009-2019
 - PintSize (paid) – A children’s clothing size predictor based on actual growth and medical growth prediction algorithms for 40+ clothing brands.
 - My favs Quick Connections for all your Contacts (paid) – Contacts grouping with phone, texting, email, and mapping features.
 - My favs lite Quick Connections for all your Contacts (free) – ad supported trial for the paid app.
 - eSMS Finder (free) – ad supported text to SMS email address utility.

Founder

1992-2010

Results from Technology!

San Diego, California

- Dental industry start-up product design, market definition, and long-term company strategy development, including patent possibility identification, and industry standards development for ePrescriptions and dental laboratory management. PACT Technologies 2009-10
- Contributed to improvements to the cross-discipline engineering senior design project course curriculum. Vanderbilt University 2005
- Developed multiple database solutions for dental education and dental care delivery functions at Loma Linda University School of Dentistry.
- Developed, upgraded, and supported a sporting event registration, fundraising, and event management database solution for the Irvine Children’s Fund annual Irvine Junior Games. 2000-10
- Created a lien document management system for multiple construction industry clients, reducing credit staff workloads up to 50% and decreasing accounts receivable days outstanding up to 60%. 1993-2004.
- Provided IT requirements and designs for business intelligence, research data, and document/image management for law firms, city governments, non-profits, small and large enterprises across industries, and universities.

Additional employment history details available upon request for these positions:

- **Director of Information Technology**, PrimeSource
- **Director of MIS and Customer Service**, Tova Corp
- **Region Service Admin Manager**, Hewlett-Packard
- **District Manager**, Customer Engineering, Hewlett-Packard
- **Sr. Customer Engineer**, Hewlett-Packard
- **Customer Engineer**, Hewlett-Packard

education

Master of Engineering in Biomedical Engineering 2007

Developed research medical imaging data archiving and post-processing systems for MRI breast cancer treatment diagnostics research.

Certificate: Executive Lecture Series 1987

UCLA Graduate School of Management
USC Graduate School of Business Administration
Los Angeles, California

Bachelor of Engineering in Biomedical Engineering 2005

Developed Raman spectroscopy imaging data archiving and post-processing systems for brain tumor resection imaging research.

Vanderbilt University, Nashville, Tennessee

publications

- ZDNet. (**guest blogger**) June 28, August 12, 2010
- Implementation of a semi-automated post-processing system for parametric MRI mapping of human breast cancer (**author**). Leesburg, Virginia. Journal of Digital Imaging, April 30, 2008.
- The ISDN Consultant (**author**). Upper Saddle River, New Jersey. Prentice Hall, 1996 - 1997.
- Sunworld Online. (**contributing writer**) San Francisco, California. Sunworld Online, 1996 – 1998
- Interexpress, Interact. (**columnist, feature writer**) Mt. View, California, 1995 – 1998

patents

- **US 10136193 Granted Nov 20, 2018** - Supporting trickplay of streaming DLNA multimedia by HLS access device
- **US20170339437A1 Published Nov 23, 2017** - Method and apparatus for segmenting data