

Michael C. O'Connor

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QR Code - vCard

iOS Software Engineer; User Interface Design

I create practical and intuitive software. I know how to listen, lead, design, cooperate and develop useful systems and interfaces. I am looking for full-time employment in Suffolk and Nassau counties of Long Island NY and Manhattan. I will travel but cannot relocate.

Key Skills

Technologies in iOS apps I've written recently include geolocation, Core Data, MapKit, Bonjour, VNC, Address Book UI, iAd, Backgrounding, speech, social network integration with Twitter, Facebook, Foursquare and Yelp, use of OAuth and JSON APIs, and more.

Experience

I've been developing iOS software for six years, and Mac OS and OS X software for over 20. I've also had well over a decade of experience in the mainframe world, authoring and directing various projects.

In the iOS world, I have seven iOS apps now on the App Store. They incorporate the technologies listed in key skills above and more. Descriptions and links are below and on my site at myallo.com.

In the Macintosh world, I designed, wrote, maintained and ultimately licensed to CompuServe an automated forum-reader named MacNav, which became their most successful Mac application, selling hundreds of thousands of copies at \$40 MSRP. I also designed and wrote MacAPL, the first APL language interpreter for the Macintosh, and numerous other apps. I developed and applied for a patent on a neural network based technology for evaluating user interest in bodies of text, useful in applications such as selecting and ranking search results, used in my NewsBrain app described below.

In the mainframe world, I was Systems Architect at DB Systems Corp. in White Plains NY for nine years, and created much of their early database systems and both application and systems software. They develop management software for colleges to use in registration, scheduling and billing. Their hardware at the time included AS/400 and DECSYSTEM-20 systems.

During that time I also worked on a consulting basis at various firms in the White Plains area including Pepsico World Headquarters (tracking worldwide inventory) and Texaco World Headquarters (generating overview reports on arbitrage trades). Earlier experience involved work such as designing CODASYL databases, writing in TECO, communicating over pre-Internet systems such as ARPANET and timesharing services including CompuServe, Trintex, AOL, I.P.Sharp, even keypunching FORTRAN code into the IBM S/370, which was my starting job.

Education

College experience includes a year at New York Institute of Technology on Long Island, and three at Orange Coast College near Irvine California. I took many computer science courses in these institutions and spent my time at their computer centers. I was employed for two years at Orange Coast developing APL software for faculty use, tutoring, and assisting with early experimental voice response systems.

Online Presence

I incorporated myself as Leptonic Systems Inc. in 1996 and have a website at leptonicsystems.com. I'm on Facebook, Twitter, LinkedIn, Google+, and other social services. The easiest way to find links to everything is through my page at about.me/lepton. I've been active in Apple's developer community since the 80's, and currently exist in the developer forums under username *lepton*.

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Recent iOS Projects

These iOS apps are currently found in the App Store under “Leptonic” and were written over the last few years. They are described from a user viewpoint on my web site at myallo.com, where details on each app are available.

NewsBrain

Technologies: **Internet, Core Data, Feedly API, Twitter API, Facebook API, REST/JSON, iAds, MediaPlayer remote control, text to speech.** My latest app is a newsreader that competes with apps like Flipboard. What distinguishes it is the sophisticated technology I’ve designed that literally learns your interests as you browse, employing neural network techniques to develop a detailed user interest profile, forming a system that can accurately predict user interest in descriptive text. It pre-reads each news article to determine relevance in thousands of topics, and combining this with the profile, accurately predicts user interest in the article. This background processing results in a display of articles, most interesting first, in a beautiful tabloid format, forming an endless magazine of articles gathered from all over the Web. It also automatically subscribes and unsubscribes to RSS feeds based on user interest. It even reads articles aloud, useful in the car and so forth. My “Myallo” technology is useful in other contexts, such as in a “you may also like” system. There are more details on my web site at myallo.com/newsbrain-help.

FriendTrend

Technologies: **Internet, Twitter API, Facebook API, Foursquare API, Yelp API, REST/JSON, Core Location, Fwd/Rev Geocoding, Geofencing, Core Data, Photo Album, Address Book, Backgrounding, MapKit.** This complex app retrieves info from social services to put people and places on a central map. It automatically checks you in to places you visit, and rates friends and places according to complex algorithms I developed based on proximity, expressed interest in specific people, places and topics, Yelp reviews, tweet content and other factors all while rationing CPU for battery life, API calls, and network bandwidth, taking into account your movements, charger status, and the type of networks in use.

Airmote and Airmote II

Technologies: **Bonjour, Internet, VNC Protocol, Core Data, Core Animation, Photo Album.** Airmote is a VNC app geared toward user simplicity. The app is oriented toward controlling media players and the like, making computer control simpler by looking and operating more like a TV remote than a traditional VNC remote computer terminal. Airmote II expands on this, adding a graphical editor that allows users to design remote control layouts with buttons of various shapes, graphics, and scripted actions, along with screen layouts. These are savable and sharable with others, and the actions they trigger are fully programmable, with pre made actions, or custom ones you can craft.

TrackinU

Technologies: **Core Location, MapKit, Core Data, Internet, Twitter API, REST/JSON.** This app lets you specify a Twitter username, to fetch and map geocoded tweets, showing the route between. It’s fun for showing the route someone took as they tweeted during a road trip, for example. I presented this at TWTRCON 2011 in Washington DC, while discussing privacy concerns involving geocoding and Twitter.

FontBrowser

Technologies: **iAds, Core Data.** This app displays installed fonts, and includes a large database of named colors, character values, Unicode names, and keystroke codes. Useful for general interest and for developers to see numeric codes for these items, for looking up Unicode characters by name, and so on.

ClipView

Technologies: **Pasteboard.** The current iOS has no way to paste an image from the clipboard into the Camera Roll. This app allows it, and also lets you see what is on the clipboard itself, in its various representations.