

# Ron Hitchens

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Software Architect with diversified skills and experience.  
Accomplished in software design and implementation across a wide range of technologies.  
Can function independently, with a team, or as Mr. Fixit.

## Expertise

- Object Oriented software design & modeling
- Application Program Interface (API) design
- Concurrency, performance, scalability
- Web applications and interface protocols
- Software development process and lifecycle
- Project leadership, from inception to launch

## Skills

- Java, Java libraries and related technologies
- C, C++ and Objective-C
- XQuery, XML and related
- Troubleshooting and problem resolution
- Mentoring, education and team building
- Level-headed in a crisis - real or imagined

## Notable Projects

- iPhone Application *Pocoman* published in the Apple iTunes Store, May, 2009.
- Designed the API for and implemented Mark Logic's XML Content Connector (XCC) in both Java and C#. The C# version uses an innovative technique to embed the Java engine in .NET.
- Re-architected Mark Logic's XQuery parser to handle three variants of XQuery simultaneously.
- Created an Open Source framework, *ProtoPlex*, built on Java NIO (the subject of my book) that does protocol-independent socket multiplexing. Enables very efficient and highly scalable Java server applications by abstracting the protocol away from the I/O, with very little client code.
- Redesigned a high-volume chat server for an online game company, using *ProtoPlex*, that runs 24/7 with many thousands of concurrent connections. Resolved many concurrency, locking and other design issues in their previous design.
- Sole Architect and implementor of a travel website that sells package tours to Europe.
- Designed and built a distributed SOA-style XSLT rendering engine for a client's XML product.
- Chief Architect for a web startup in the legal space. Responsible for all code and database design. Guided the project from initial design through service launch, in six months.
- Bank of America online banking system Total rewrite in Java, integration with multiple legacy systems, databases and other teams Resolved concurrency, scaling and performance issues.

## Publications

- *Java NIO*, O'Reilly Media, 2002. Using Java New I/O and regular expressions effectively.
- *Getting Started With XQuery*, Pragmatic Bookshelf, 2008. Introduction to XQuery.
- Various articles and blog posts for O'Reilly.
- Official JavaOne blogger for several years.

## Speaking / Awards

- *JavaOne*, 2005 and 2006. Voted *JavaOne Rock Star* award with Jason Hunter in 2005.
- Inducted as a *Java Champion* in 2008.
- SD West, 2007, 2008 and 2009
- JavaPolis (Belgium), 2003. Invited speaker.
- OSCon, Code Camps, JUGs, etc.

## Availability

I am available on an hourly or project basis. I can design a new system or help with an existing project. Rates and references available upon request.