Michael O'Connor
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Summary:
- Solution Architect, Technical Lead and Senior Software Engineer, with significant experience in object-oriented design (OOD) and programming (OOP).
- Successful delivery of software products across multiple disciplines: desktop application development, Service Oriented Architectures (SOA), database driven client-server web applications, and wireless devices.
- Broad technologist with an interest in cutting edge solutions.
- Articulate, confident communicator experienced with written and oral presentations.

Experience

Deutsche Bank — Cary, NC
Lead Solution Architect — 2011 to Present
- Manager of Trade Management Services team consisting of software developers, financial analysts, and support engineers. Responsible for a position keeping service that feeds equity derivative information to risk analytics applications.
- Architect and engineering manager for implementation of a low latency, high throughput web service to support position keeping of multiple asset types across exchanges worldwide.
- Architect for operational data store (ODS) in structured products. Responsible for scaling the throughput and storage capacity from 3 GB per day to 300 GB per day.

Technologies: Java, multithreading, SQL, UML, Spring integration, agile, JSON

Cisco Systems, Technical Services Division — Cary, NC
Chief Software Architect — 2010 to 2011
- Project lead of research and development program for Smart Services. Focused on mobile applications that interact with backend data stores. Developed iPhone and Android application prototypes.

Technologies: iOS, Android, Objective C, C++, Java, Titanium

Pure Digital Technologies (Acquired by Cisco Systems in 2009) — San Francisco
Chief Software Architect — 2004 to 2010
- Architect and senior developer of FlipShare, a desktop application that edits, shares, and organizes digital video and photographic content.
- Architect and project lead of FlipShare TV, a wireless set-top box that displays multimedia content streamed from a computer or network service.
- Manager of manufacturing software team. Designed and implemented software to determine color response, analyze focus, verify sensor behavior, and apply security measures to single-use digital still cameras.
- Lead engineer of image processing team which was responsible for development of algorithms to enhance digital images from our cameras so that could be printed on

high-definition printers.
Technologies: C++, C#, .NET, JavaScript, Windows, Macintosh, imaging, video, agile

Adobe Systems San Jose, CA
Senior Computer Scientist 1996 to 2004

- Manager of Adobe Acrobat for UNIX. Responsible for release of Acrobat Reader for Linux, Solaris, HP-UX, and AIX.
- Principal engineer for Adobe Document Server (ADS), Adobe's first software as a service (SaaS) framework. ADS generated images from PDF documents and provided a RESTful interface for users to design their own front-end to the service.
- Lead engineer of Acrobat Annotations team. Responsible for design and development of online collaboration solution to enable users to share annotations over the web.

Technologies: C++, Perl, JavaScript, HTML, Apache, Linux, Windows, Macintosh, HTTP

Sun Microsystems Mountain View, CA
Member of Technical Staff 1995 to 1996

- Developed multithreaded video and image processing library.

Technologies: C++, imaging, video, Solaris, HP-UX, multithreading

Kubota Graphics Computer Santa Clara, CA
Member of Technical Staff 1992 to 1995

- Developed an application library to render and display 3D volumes created from cross-sectional scans of medical imaging data.

Technologies: C++, imaging, OSF, X11, gcc, OpenGL

Digital Equipment Corporation Merrimack, NH
Senior Software Engineer 1986 to 1992

- Developed software libraries for image processing applications.

Technologies: C++, imaging, VMS, Ultrix, OSF, X11, gcc

Education

Rensselaer Polytechnic Institute Troy, NY
M.S. Computer Science 1990

Carnegie Mellon University Pittsburgh, PA
B.S. Applied Math 1986

Patents

Patent 6,490,609 (December 3, 2002) Method, apparatus and computer program product for invoking a thread-unaware routine that uses an operation-dependent temporary data structure

6 Patents Pending