

## Steven M. Cohn

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Technical leader, software architect, and mentor offering fresh insight and passion for innovation with a proven track record in planning, building and launching successful COTS, e-commerce, and business applications. Skilled at translating business needs into creative technical implementations by empowering teams with process, tools, technologies, and accountability. Experienced in e-business start-up and the seamless integration of emerging technologies in a large user community. Keen, in-depth, and intuitive understanding of design, architecture, software life-cycle methodologies, and technology trends. Focused on building team cohesion and inspiring individuals to strive toward ever-higher levels of achievement.

### PROFESSIONAL EXPERIENCE

#### Waters Corporation – Milford, MA

Jun 2002 – Present

##### **PRINCIPAL CONSULTING SOFTWARE ENGINEER, *Technical Lead and Applications Architect***

Accountable for the delivery of a lab monitoring solution. Champion quality-first development including shift-left BDD, pipeline automation, and traceability. Mentor the Smart Connected Products teams on best practice agile methodologies, refinements, estimations, and planning.

Architected the next generation cloud-native CDS, focusing on user workflows and data compliance for regulated industries. Established patterns and best practices through a demonstrative PoC that became the Empower Connect product.

Led the Performance, Scalability, and Reliability team, responsible for maintaining, analyzing, and correcting design issues impacting the robustness of the overall UNIFI system. Published best practice guidance for developers. As liaison to Microsoft's Premier Services, coordinated performance testing sessions at Microsoft's Dallas and Seattle Performance Labs. Established in-house performance models for both tactical analysis of critical issues and long-running viability tests.

Development Project Manager of analytical applications for UNIFI V1.0, managed resources across international teams spanning a multi-layered architecture of applications and subsystems. Technical lead and advisor for the release engineering teams.

Delivered benefit to customers by architecting solutions for UNIFI, the next generation of analytical products. Responsible for the design and implementation of an extensible and highly scalable application foundation including security, auditing, localization and intrinsic subsystems. Established core architectural principles as a basis for building an SOA with well-defined OpenAPI contracts.

Originally hired to train the Win32 staff in .NET and Internet technologies. Contributed to the WWSDLC, work instructions and procedures including coding guidelines, unit testing, and methodologies. Designed the foundational layer for the UNIFI platform, core services, and database adapters.

### PATENTS

- [\*Techniques for Event Notification\*](#), 2012
- [\*Methods, Mediums, And Systems for Building and Executing a Chromatography Workflow\*](#), 2021
- [\*Methods, mediums, and systems for Storing and Retrieving Chromatography Data\*](#), 2021
- [\*Techniques for Evaluating Analytical Instrument Performance\*](#), Pending, 2019
- [\*Methods, Mediums, And Systems for Generating a Chromatography Processing Activity Map\*](#), Pending, 2022
- [\*Methods, Mediums, And Systems for Uploading and Visualizing Data in An Analytical Ecosystem\*](#), Pending

## PUBLICATIONS

- *Multi-mode acquisition (MMA): An MS/MS acquisition strategy for maximizing selectivity, specificity and sensitivity of DIA product ion spectra*, Contributing Author, Research Gate, August 2016

*Technologies include:* AWS, Kubernetes, Docker, Angular/Typescript, .NET, C#, Terraform, Web services, WPF, Windows Forms, ASP.NET, Oracle, OLAP, SOA, C4 Modeling, Atlassian, GitHub, 21 CFR Part 11 and ISO 9000.

## Newmediary, Inc. – Newton, MA

Jun 1999 – Jan 2002

### CHIEF TECHNOLOGY OFFICER, Co-founder

As principal software architect, technology mentor and motivational leader defined the technology infrastructure and product development strategies for a scalable vendor directory and RFP/RFQ engine, a private-labeled Web-based ASP supporting over 50 partners spanning multiple industries. Built and managed teams including engineering, QA, and IT. Focused on finding accretive and complimentary products and solutions to extend offerings and mature the USP. Built cohesive partnerships with vendors to accommodate tactical needs. Defined and enforced corporate electronic usage policies and aligned technology solutions to match business objectives while effectively controlling costs and meeting timelines.

Led a team to build a comprehensive intranet to facilitate intra-departmental collaboration and administration, combining services such as Web-based software life-cycle tracking, financial and statistical reports using OLAP, technical and user libraries, HR integration, and employee development and enrichment resources.

Built and maintained proprietary tele-sales, e-commerce, and online advertising systems and supervised Microsoft Dynamics CRM integration, network administration, security policies and help desk support. Directed the due diligence and procurement of all IT related areas and oversaw 24x7 operations, reliability, scalability, network design, security policies, system administration, and design and maintenance of co-location environments.

Cross-functional responsibilities included strategic business planning and development, oversight of vendor selection and management process, contract negotiations, project management, change management strategies and senior level recruitment.

*Technologies included:* Windows NT/2000 Clusters, IIS 4.0/5.0, ASP with server-side JScript, WSH, MS-Java, SQL Server 2000, Cisco, Alteon, Check Point FireWall-1, Compaq StorageWorks SAN, SOAP.

## PATENTS

- [\*System and method for establishing business to business connections via the internet\*](#), 2001

## Boston Globe Newspaper – Dorchester, MA

Jul 1990 – Jun 1999

**MANAGER OF INTERNET DEVELOPMENT**, *Associate Software Analyst* (Aug 1995 –Jun 1999)

**PRINCIPAL SOFTWARE ENGINEER**, *Senior Systems Analyst* (Jul 1990 –Aug 1995)

Managed the R&D of new application and development technologies for the Intranet and Extranet, including Subscription and Advertising services and SSO solutions. Led cross-company consortium focused on integrating Intranet/Extranet resources for all of the New York Times Digital properties.

Maintained a high level of availability and provided systems management and technical support of all critical servers. Designed authoring and publishing utilities for both content providers and operational support staff, such as page editors, tape backups, and statistical analyzers. Oversaw the development of all data-aware interactive pages. Recipient of 1996 Employee Outstanding Achievement Award for work involving our corporate intranet.

Deployed software solutions that provided process control, data acquisition, and factory automation/manufacturing strategies for the production environment. Systems included monitoring, intelligent process management, expert systems, development tools, and API libraries. Coordinated various departments within the company and third-party vendors to develop production control systems for all three Boston Globe plants.

Had complete accountability for the design, development, and delivery of the Inserter Control System, a fully integrated, distributed factory automation system. Also the Integration Mailroom Management System, an expert system (rules-based) for scheduling “very complicated” production runs.

Built a platform including the Message Delivery Facility, a bi-directional event-driven messaging subsystem based on Ethernet and a non-transparent DECnet kernel.

*Technologies included:* Windows NT, IIS 4.0, ASP with VBScript, Java 2.0 & MS-Java 3.0, SQL Server 6.5, MFC, ActiveX, OpenVMS, DEC Unix, Netscape LDAP Directory Services, C, COBOL, Lisp, Macro.

### **Boston Globe Newspaper, Co-op**

**APPLICATIONS DEVELOPER**, *General Applications Group* (1989)

**NETWORK ADMINISTRATOR/SYSTEMS MANAGER**, *IT/Operations Group* (1987 – 1989)

**DATABASE ADMINISTRATOR**, *Junior DBA and Engineering Support* (1986 – 1987)

Maintained a mixed mode VAX cluster running LOB applications and development environments supporting a user community of over 1500 users. Responsibilities included system configuration, network management, user support, security, application and layered product support, technical training, and solving real-time problems. Honored with a Boston Globe Co-op Scholarship for outstanding performance.

**WeWantWorkBoston**, *Technology Coordinator*

**Feb 2003 – Apr 2008**

**etimes3 – Waltham, MA**, *Consultant for Families of September 11 Web site*

**May 2002 – Oct 2002**

**Northeastern University – Boston, MA**, *Instructor, Continuing Education*

**Apr 1997 – Apr 1999**

**ConsulTec – Boston, MA**, *Technical Consultant/Trainer*

**Dec 1998 – Mar 1999**

**Network World – Framingham, MA**, *Freelance Writer*

**Dec 1997 – Apr 1998**

**Digital Review – Boston, MA**, *Freelance Writer*

**Nov 1989 – Feb 1990**

## **EDUCATION**

**Northeastern University – Boston, MA**

Bachelor of Science in Computer Science, 1990