

# MITCHELL A. MILLER, PhD

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## SUMMARY

Architect of information systems with expertise in defining, developing and deploying applications to improve research productivity. Recognized as leader who gains trust of his reports and colleagues and knows how to encourage them to give their best. Talent for targeting software applications to scientific researchers. Hands-on expertise developing in object oriented programming languages using thick-client and web applications. Recognized for organizing productive technical and scientific meetings.

## SKILLS

- Knack for elucidating complex requirements and turning them into productive software.
- Conversion of legacy data to useful formats.
- Functional manager for team of ten developer / analysts.
- Key technical skills: C#, ASP.NET, Java, Oracle, XML, PL/SQL, WPF, ADO.NET, HTML, CSS, JavaScript, Symyx LEA (high-throughput experimentation) software, VB.NET, Chemical database cartridges, chemical structure manipulation, IIS, Unix, Tomcat, software QA.

## EMPLOYMENT HISTORY

**SCIENTIFIC THINKING, Fairfax, VT**

**2010-2011**

**Principal**

**Application and database services to support scientific research**

Chemical library architecture for high-throughput research project. One project consists of WPF-based add-in for thick-client application; ASP.NET application; database architecture (DDL + PL/SQL); migration of legacy data and close coordination with team members in remote locations.

**SYMYX TECHNOLOGIES, Santa Clara, CA**

**2004 – 2010**

**Director**, Enterprise Application Development Services (2005 – 2010)

**Managed geographically dispersed group of ten consultants.** (Team spanned 4 countries and 4 states.) Primary contributor on revenue projects. Bridged gaps in customer workflows by applying informatics technology to complex requirements. Developed web and thick-client applications.

- **Ensured successful completion of 5 year \$15M+ technical alliance to transform research informatics at Fortune 100 diversified chemical, energy company.**

Managed deployment of resources across departments to fulfill full-time equivalent commitment to customer.

Provided architectural guidance, technical education and high-level support to empower customer developers to become self-sufficient with software developers' kit.

Resolved gaps in data analysis processes by providing high-value solutions.

- Managed chemical inventory project for Fortune 100 pharmaceutical company (Java Web application – JSPs and Servlets plus C++ and VB 6 add-ins for thick client program and database structures).

Completed two phases, each on time and under budget.

Managed all phases of project, from requirements analysis, through coordinated code development (4 four other developers), to deployment, maintenance and user acceptance.

Empowered customers with functionality that colleagues initially thought impossible.

- **New laboratory workflow product (based on ASP.NET / MVC; written in C#).**

Requirements analysis with major customer (\$9B plastics producer).

Developed critical components (barcode printing and user notification system).

Drove preliminary developer documentation project for \$200K in revenue.

**SYMYX TECHNOLOGIES** (continued)

- Managed developer conferences.  
2+ days each; 50+ attendees.  
Coordinated cross-departmental technical programs and meeting logistics.

**Senior Consultant** (2004 – 2005)

Primary contributor for first year of 5 year \$15M+ technical alliance with Fortune 100 diversified chemical, energy company.

- Developed chemical inventory application in close cooperation with customer.
- Provided concierge-level architectural support to developers to enable update of information system used by 200+ researchers.
- Organized and ran symposia for American Chemical Society Division of Chemical Information.

**LION BIOSCIENCE, INC.**, Heidelberg, Germany (San Diego, CA)**2002 – 2003****Director, Cheminformatics**

Internal scientific/informatics architect for software company, ensuring that products met the needs of scientists.

- Created compelling demonstrations of new Discovery Center product which appealed to chemists. Used publicly available data sets to link chemistry, biology and genomics.
- Organized and ran symposia for American Chemical Society Division of Chemical Information.

**NETGENICS, INC.**, Cleveland, OH**1999 – 2002****Domain Analyst**

Internal scientific adviser for software company, ensuring that products appealed to chemists.

- Participated in development of chemical information exchange standard that enhanced company's scientific reputation.
- Integrated chemical searching into federated data system which ensured successful completion of \$1M consulting project.
- Guided acquisition and integration of ChemSymphony and MetaSymphony product lines.
- Generated \$150K / year consulting revenue in half of working time.

**MDL INFORMATION SYSTEMS INC.****1989-1999****Senior Consultant**, Parsippany, NJ (1997 – 1999)

Solicited user requirements, generated specifications, designed, built, installed, tested and debugged customer-specific applications using Web-based and client / server chemical and relational database technology (Chemscape, ISIS) for leading pharmaceutical, agrochemical and chemical companies. Served as technical lead for large-scale projects.

**Quality Assurance Engineer**, Internet Technologies, San Leandro, CA (1996 – 1997)

Ensured successful launch of new \$10M product that was the first to integrate chemical searching into web applications. Coordinated formal QA, wrote demonstration applications, evangelized customers and colleagues in the field.

**Field Application Scientist**, Parsippany, NJ (1989 – 1995)

Won technical sales through effective demonstrations, spot-on technical support, targeted presentations and application development.

**EDUCATION**

**PhD**, Computational Chemistry, Graduate Center, City University of New York, New York, NY

**MA**, Chemistry, Queens College of City University of New York

**BA**, Comparative Literature, Queens College of City University of New York