

## **ANDREW J. AYERS**

Physical Sciences Section  
Environmental Science Division  
Argonne National Laboratory

### **Education:**

B.S.                   Benedictine University, Computer Science, 1994

### **Professional Experience:**

2010-Present      Software Engineering Specialist  
                          Environmental Science Division  
                          Argonne National Laboratory

Develops and maintains web-based software systems with significant geographic information system integration components. Provides technical leadership and expertise in the application of Internet technologies, both proprietary and open source, and software development practices to support the division programs and initiatives.

### **Summary of Previous Experience:**

2006-2010         Viewpoints Network, Inc., Chicago, IL

Senior software engineering responsible for architecting, building, and maintaining a public website providing user-generated ratings and reviews. Architected and implemented software integration solutions with third-party platforms providing advanced text search, faceted navigation and advanced email delivery.

2004-2006         Aptela, Inc., Chicago, IL

Chief Architect responsible for architecture and implementation of a hosted communications platform for small businesses. Analyzed and applied various technologies, programming languages, and architectures to produce a secure system providing email, fax, contact management and telephony services in a single integrated application. Performed technical management of a geographically-diverse team of software engineers. Provided technical leadership and expertise in the migration to a fully open source technology infrastructure.

2004-2004         NextWave Logistics, Naperville, IL

Senior software engineer responsible for architecture and implementation of public and private web-based system to support direct selling companies. Provided technology leadership and guidance to advance the capabilities and quality of the development group.

2003-2004      Orbitz, LLC., Chicago IL

Senior software engineer responsible for the ongoing development of the car rental system. Scoped, architected, and implemented various system enhancements and feature upgrades.

1999-2003      Aptela, Ince (formerly E-cerv, Inc.), Chicago, IL

Senior software engineer responsible for the green-field architecture and implementation of a web-application communication portal for small business. Integrated various open source and proprietary technologies to provide centralized management of email, phone calls, faxes, and voicemail.

1997-1999      Neoglyphics Media Corporation, Chicago, IL

Lead developer of a multi-tier, distributed object commercial banking application for a large mid-west bank. The application integrated and replaced several legacy, stand-alone applications and host-based systems.

1994-1997      Argonne National Laboratory, Argonne, IL

Built a web-based work-flow application to support the production and public review of environmental impact statements. Designed and implemented one of the earliest Java applets that provided vector graphics display and querying for geographic data.

**Research Interests:**

Web-based access to geographic information systems  
Software development approaches and methodologies

**Professional Activities:**

Member of IEEE