

JO ANN BROOKS

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OBJECTIVE

Position in software development using Java or C++ in Middle Tennessee

HIGHLIGHTS

- MS Computer and Information Science, University of Massachusetts
- In-depth study of Java programming language (May 2014 completion)
- 8+ years software development experience: C, C++, Lisp
- Development environments: Eclipse, Unix
- Additional training in Python, MS Access, website design and development
- PhD, University of Michigan, Public Policy Studies

SOFTWARE DEVELOPMENT EXPERIENCE

University of Michigan, School of Information Studies, Ann Arbor, MI 1998
Implemented graphical reasoning production system (Java / NT)

Member Technical Staff, Sun Microsystems, Bedford, MA 1990–1993
Contributed to the development of a distributed information management product

- Developed user interface for collection management in networked client/server search and retrieval product with work-group features (C++ / Solaris / OpenLook / Unix)
- Designed and implemented related client and server semantics
- Participated in product design with a focus on work-group features; worked collaboratively on user interface design
- Developed task analysis and conceptual model for a second project

Software Engineer, Mirror Systems, Cambridge, MA 1987–1990
Contributed to the development of an automated legal document preparation system

- Designed and developed user interface and module structure database for question authoring module of networked legal document system (C, Win3.1 / DOS)
- Designed and developed database architecture, module structure and graphical user interface for question authoring module of networked legal document/forms system
- Analyzed coordination dependencies in group authoring process

Project Leader, Lisp Machine, Inc., Cambridge, MA 1985–1986

- Designed an intelligent computer-aided instruction/help system for large and complex information spaces
- Developed pilot for mixed-initiative intelligent computer-aided instruction/help hypertext system (Zetalisp / Lisp Machine)
- Implemented on-line introduction to Lambda Lisp Machine

ADDITIONAL INFORMATION TECHNOLOGY EXPERIENCE

Internet Experience, University of Michigan, Ann Arbor, MI

- Webmaster for School of Information course 1998
- Designed and implemented online survey for JSTOR pilot, using html 1996

Lotus Notes Experience, University of Michigan, Ann Arbor, MI 1993–1995

- Member, U-M Information Technology Division (ITD) Notes Core Team, addressing university-wide issues about deployment of Lotus Notes
- Researched issues surrounding allocation of Notes name space and authorization of intra-university users
- Designed and prototyped end user interface for Information Technology Division time sheets project
- Coordinated technical systems for Lotus Notes for students and researchers

Independent Consultant, Stoneham, MA 1986–1987

- Set up computer systems for small businesses
- Solicited and negotiated contracts; assessed customer requirements and made arrangements for procuring equipment
- Installed and set up a variety of database and spreadsheet applications
- Trained customers on systems

ADDITIONAL PROFESSIONAL EXPERIENCE

Postdoctoral Research Associate, Syracuse University, Syracuse, NY 2011–2013

Project management for research proposal development efforts, working closely with faculty in the areas of eScience and Big Data. Contributions included background analysis, writing, editing, and team coordination; locating funding opportunities, forming and managing large collaborative research proposal development team.

Postdoctoral Research Fellow, Vanderbilt University, Nashville, TN 2010–2011

Collected and analyzed data, and coordinated day-to-day aspects of NSF-funded research project focused on information sharing practices and inter-organizational relationships of federal, state and local government agencies involved in DHS Fusion Centers.

Research Sociologist, The MITRE Corporation, Bedford, MA 2004–2010

Principal Investigator on several internally-funded research efforts, collaborative with researchers from MIT and Bentley University, studying social and organizational implications of systems engineering projects involving government agencies.

Field Studies on Use of Collaboration and Information Technologies 1992–2004

Sponsors: DARPA, Lotus Development, Lotus Research, Mellon Foundation, MITRE, Sun Microsystems, University of Michigan.

Research methods: document analysis, interviews, participant observation and surveys.