



JO ANN BROOKS

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PROGRAMMING LANGUAGES

Current Skills

- AngularJS
- C# / .NET / SQL
- JavaScript
- Node.js

Prior Work

- C
- C++
- Lisp
- Unix

Familiar With

- Fortran
- Java
- MongoDB
- Python

RECENT PROJECTS

Pickers Tunes

ASP.NET MVC 5 RESTful API.
API for managing catalog of
bluegrass music

Research Collaborator

MEAN Full Stack.
Project management web app for
collaborative research teams

Group Projects

MEAN Stacks, External APIs.
Collaborative development
teams with NSS students

WORK EXPERIENCE

Software Development

UX design & development
Sun Microsystems & 2 startups
8 years, Greater Boston

Field Studies of IT in Use

Qualitative research methods
Industry & academia
10+ years, USA

Project Management

Collaborative research
\$2M, distributed teams
5+ years, Greater Boston

EDUCATION

Software Development

Nashville Software School

MS Computer Science

University of Massachusetts

PhD Social Science

University of Michigan

PERSONAL

Independent Scholarship

Organizational implications of IT
Research and writing

Volunteer

Code for Nashville
Metro Data Access Liaison

Hobbies

Bluegrass banjo
Hiking

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PROFESSIONAL EXPERIENCE: SOFTWARE DEVELOPMENT

University of Michigan, School of Information Studies, Ann Arbor, MI 1993–1998

Implemented graphical reasoning production system (Java / NT). Designed and prototyped end user interface for Information Technology Division timesheet project (Lotus Notes).

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.

Software Engineer, Mirror Systems, Cambridge, MA 1987–1990

Contributed to the development of an automated legal document preparation system. Designed and developed graphical user interface, module structure and database for question authoring module of networked legal document system (C, Win3.1 / DOS).

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

Designed and developed prototype mixed-initiative intelligent computer-aided instruction/help hypertext system (Zetalisp / Lisp Machine).

PROFESSIONAL EXPERIENCE: SOCIAL SCIENCE RESEARCH

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. Researching topical backgrounds, writing, editing, and team coordination; locating funding opportunities, forming and managing large collaborative research proposal development teams.

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: Collaboration and Information Technologies in Use 1992–2004

Research methods: document analysis, interviews, participant observation and surveys.
Sponsors: DARPA, Lotus Development, Lotus Research, Mellon Foundation, MITRE, Sun Microsystems, University of Michigan.