

Jeffrey H. Alexander

15 Walnut Ct
Arlington, MA 02476

jla@alumni.brown.edu
617.216.2833

SKILLS

- Languages, etc: Java, C++, C, Shell Scripting, AJAX, HTML, CSS, XML, Servlets/J2EE
- Development on Solaris, Linux, Mac OS X
- Object Oriented Design including analysis process, design patterns, familiarity with UML
- Group/Team Work: Contributor to large and small groups, technical lead for team of 3-8 people

INTERESTS

- Designing and developing enterprise and web-scale software systems
- Interests in cloud computing, distributed data stores, applications of search technology

EXPERIENCE

Sun Microsystems, Inc Researcher, MTS4

2004-Present

Contributor, The AURA Project (aura.kenai.com, www.tastekeeper.com):

- Designed and implemented scalable data store to satisfy needs of interactive web-scale recommender
- Integrated high availability database into data store back end
- Developed automatic deployment to Sun's grid environment
- Developed web-based administrative interface to monitor and manage the data store
- Developed Facebook front end application and contributed to music recommendation application

Contributor, Minion Search Engine (minion.dev.java.net):

- Added automatic document classification infrastructure to search engine
- Developed multiple grammars for querying the search engine
- Worked towards building open source community around Minion
- Developed "SearchFS": Filesystem abstraction for browsing hierarchically classified documents directly via WebDAV
- Developed "Blurbalyzer": book recommender based on similarity of blurbs and reviews
- Developed "Mailfinder": company-wide mail search and browse web application for internal mailing lists

EMC Corporation Principal Software Engineer

1999-2004

Team Lead, Storage Provisioning Services:

- Led 8 person team in the development of a product version, starting by clearly defining requirements and use cases
- Designed and developed new features (artifacts include sequence diagrams and data model) and conducted code reviews
- Worked closely with other software groups and with documentation and quality assurance for successful delivery

Contributor, Various Products:

- Storage Provisioning Services: Member of team developing cross-vendor, policy-based automated provisioning engine
- Celerra Data Migration Service: Developed online file system migration ability for NAS device at inode level
- InfoMover File Server: Implemented NFS protocol backed by mainframe data sets; took over leadership of team

X23 Technologies, Inc

1997-1999

- Founded software consulting firm; served as head of software development staff and member of board of directors
- Projects include: video e-mail kiosk; web front end for contact manager; Java version of skill-based management system

EDUCATION

Brown University Sc.B. Computer Science

1995-1999

- Focus on system software engineering including operating systems, distributed systems, and networking

PATENTS & PAPERS

- *Generating Transparent, Steerable Recommendations from Textual Descriptions of Items*, Recommender Systems '09
- 6,889,292 Methods and apparatus for accessing data using a cache
- 6,938,039 Concurrent file access at a target file server during migration of file systems between file servers
- 7,401,137 Methods and apparatus for application of management actions to resources sharing relationships

RECOGNITION

- JavaOne Rock Star, April 2008
- EMC Most Valuable Player, August 2003
- EMC Unsung Hero Award