

Mike Perkowitz

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Professional Experience

Senior Program Manager, Senior Scientist, Kiha Software

March 2008 - Present

- Led the team that designed and implemented the text analysis pipeline, user modeling service, and search service.
- Designed and prototyped algorithms for named entity recognition, personalized entity recognition, user activity and place modeling, social relationship modeling, and search indexing and exploration.
- Managed Kiha's patent portfolio, wrote provisional patent applications and technology descriptions, worked closely with patent attorneys to write and revise applications.
- Inventor on five patent applications.

Program Manager, Trailfire, Inc.

November, 2005 – March, 2008

- Developed product strategy and created feature specifications for Trailfire's web-based social annotation tool.
- Participated in crafting overall company strategy, planning and executing marketing initiatives, and meeting with potential investors and partners.
- Developed clustering and other data mining algorithms for analyzing and organizing web pages.
- Designed and implemented web-based user interface.
- Hired and worked with graphic designers on product look and feel.

Software Design Engineer, Amazon.com

June 2004 – November 2005

- Designed and implemented a personalization engine that tailors advertising for Amazon affiliate web sites to the sites' content and traffic.
- Explored new tools and algorithms for understanding customer behavior to better recommend relevant products.
- Maintained a detailed customer behavior database, created tools for viewing and analysis of that customer behavior, and assisted others throughout the company in better understanding Amazon customers.

Researcher, Intel Research Seattle

November 2002 – June 2004

- Helped design a system for identifying activities of daily living among residents of assisted-living facilities.
- Developed algorithms for extracting structured statistical models of activities of daily living from unstructured web sources for use in activity recognition, and created a partial knowledge base of activities.
- Explored possible uses of mobile technology to bring people together based on online relationships.

Senior Engineer, Advanced Development, Appliant, Inc.

August 2000 - July 2002

- Designed data analysis and reports showing the connection between web site performance and customer retention and sales.
- Prototyped new features and reports and wrote specifications for implementation.
- Created automated diagnostic tools for pinpointing problems in web site infrastructure.
- Performed in-depth analysis of customer data and prepared explanatory presentations for executive team and prospective customers.
- Wrote white papers and a conference paper explaining some of Appliant's technological innovations.

Research Assistant, University of Washington Department of Computer Science

September 1993 - August 2000

- Developed new statistical and clustering algorithms for analyzing user behavior data (Ph.D. dissertation work).
- Applied these algorithms in a system to analyze user traffic at a web site and adapt the site structure to facilitate navigation.
- Developed an algorithm for extracting structured information from semi-structured internet information sources, and implemented a prototype system (M.S. work).
- Published numerous papers in artificial intelligence, machine learning, and data mining journals and conferences, and presented results at conferences.

Research Intern, Microsoft Corporation

June 1996 - September 1996

- Developed working prototype of a system for sharing web-based information via a character-based user interface.
- Published and presented a paper describing this work at the 1996 Lifelike Computer characters conference.
- Received a patent for this work.

Technologies and Methodologies

Agile, Kanban, JIRA, VersionOne, Java, PHP, Perl, Javascript, SQL/MySQL, MongoDB.

Education

University of Washington, Ph.D., Computer Science, February, 2001.

University of Washington, M.S., Computer Science, June, 1995.

Brown University, B.S., Cognitive Science and Linguistics, May, 1993.

Selected Publications

M. Philipose, K. Fishkin, M. Perkowski, D. J. Patterson, D. Fox, H. Kautz, and D. Habel.

Inferring Activities from Interactions with Objects. IEEE Pervasive Computing. Vol. 3, num. 2, 2004. pp. 50-57.

M. Perkowski, M. Philipose, K. Fishkin, and D. J. Patterson. **Mining Models of Human Activities from the Web.** Proceedings of the Thirteenth International World Wide Web Conference (WWW 2004).

J. B. Chen and M. Perkowski. **Using End-User Latency to Manage Internet Infrastructure.** Proceedings of the 2nd Workshop on Industrial Experiences with Systems Software, 2002.

M. Perkowski. **Adaptive Web Sites: Cluster Mining and Conceptual Clustering for Index Page Synthesis.** Ph.D. dissertation, University of Washington, 2001.

M. Perkowski, and O. Etzioni. **Towards Adaptive Web Sites: Conceptual Framework and Case Study.** Artificial Intelligence Journal, 1999.

M. Perkowski, and O. Etzioni. **Adaptive Web Sites: Concept and Case Study.** Communications of the ACM, 1999.

M. Perkowski and O. Etzioni. **Adaptive Web Sites: Automatically Synthesizing Web Pages.** Proceedings of AAAI 1998.

M. Perkowski, R. Doorenbos, O. Etzioni, and D. Weld. **Learning to Understand Information on the Internet: an Example-Based Approach.** Journal of Intelligent Information Systems. Vol. 8, num. 2, 1997. pp. 133-153.

E. Charniak, C. Hendrickson, N. Jacobson, and M. Perkowski. **Equations for Part-of-Speech Tagging.** Proceedings of AAAI 1993. pp. 784-789.