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Employment

Senior Software Architect, TripAdvisor LLC. [November 2011 – present]

Consultant, Nevo Technologies. Algorithm development and implementation for investment strategy design and building energy evaluation. [October 2009 – June 2011]

Chief Scientist; HireReach Inc. Web content analysis. [January 2010 – June 2011]

Co-founder and CTO; Oxy Systems Inc. Third-party applications for mobile phones, with server-side features and support. [March 2003 – December 2007]

CTO; Speech Portal Division, Comverse Network Systems. Speech recognition enhancements to service offerings. [August 1999 – November 2002]

Co-founder and CTO; InTouch Systems Inc. Speech recognition consulting and applications. [March 1996 – August 1999]

Division of Applied Sciences, Harvard University. Associate [June 1985 – June 1991]. Adjunct faculty [September 1997 – June 1998].

Senior Scientist; Bolt Beranek & Newman. Algorithms for construction and analysis of packet-switched networks [November 1984 – October 1991]. Speech recognition systems and applications [October 1991 – March 1996].

Education

PhD, Applied Mathematics, Harvard University, 1984

AB *magna cum laude*, Applied Mathematics, Harvard University, 1977

Teaching (partial list)

Math 22, Discrete Mathematics, Fall 2003, Tufts University

Computer Science 124, Data Structures and Algorithms, Spring 1998, Harvard University

Math E-117, Advanced Discrete Mathematics, Spring 1993, Harvard University Extension

CSCI E-124, Algorithms, Fall 1992, Harvard University Extension

Issued US Patents (excluding pending applications)

"Active prompts," #6724864, April 20, 2004

"Entering names via keypad," #6728348, April 27, 2004

"Automatic dynamic speech recognition vocabulary . . . ," #6937986, August 30, 2005

"Method of assessing degree of acoustic confusability . . . ," #7013276, March 14, 2006

"Voice application bookmarks," #7158936, January 2, 2007

Publications (partial list)

Data Structures and Their Algorithms, with Harry Lewis, HarperCollins, 1991

"Definability by constant-depth polynomial-size circuits," with Yuri Gurevich and Saharon Shelach, *Information and Control* **70**, 1986

"The complexity of the satisfiability problem for Krom formulas," with Harry Lewis, *Theoretical Computer Science* **30**, 1984