

Zunaid Kazi, Ph.D.

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HIGHLIGHTS

- Forward-looking technology executive with demonstrated success launching global, enterprise level solutions.
- 20+ years experience in technology research and development that includes 10+ years of executive leadership.
- Experience managing global teams and administering multi-million dollar budgets.
- Subject matter expert in text analytics and information retrieval with numerous publications and patents.

PROFESSIONAL EXPERIENCE

Knowtotation, USA based, Global reach

June 2010 – current

Founder and Principal

Founded Knowtotation in 2010. Knowtotation provides technology diagnosis, assessment and design as well as software and services for solutions that leverage text analytics and mining for knowledge extraction and decision making from unstructured data.

Parity Computing, San Diego, California, USA

April 2002 – July 2010

Vice-President, Research and Development

Led R&D for the company's suite of unstructured data analytics and knowledge discovery products and solutions. Responsible for strategy, analysis for product planning, architecture, and accountable for execution and delivery. Led large scale projects from proposal preparation to defining strategy and architecture, and led geographically disparate development teams to successful execution. Worked directly with clients on key projects including requirements evaluation and strategy formulation. Developed technology innovations using text analytics and NLP for data/content integration and for realizing actionable insights from unstructured data.

Key successes:

- Led multi-million dollar solutions for clients that included Global 500 companies.
- Developed IP that creates knowledge-rich and actionable profiles of key concepts and entities such as people and organizations, inferred from disparate unstructured data sources as seen in the ACM Digital Library, IEEE Xplore and Reed-Elsevier's SciVerse SCOPUS.

Liaison Technologies, Austin, Texas, USA

May 2000 – December 2001

Director, Product Management and Technology Strategy

Directed product management for the company's suite of data/content integration products. Built and led cross-functional teams to take products through the lifecycle on an agile basis. Performed strategic content assessments for content integration and transformation.

Key successes:

- Release of multiple products through definition, architecture, implementation and launch, resulting in sales of more than \$2 Million in 12 months (Dell, Context, IDC, SeaGate, Comark, etc.).
- Designed and developed technology that matched dynamic product content from disparate sources which was then extended to support product content discovery, data cleansing and search.

IBM Research, TJ Watson Research Center, USA

September 1997 – May 2000

Research Staff Member

Performed core research and development in text-mining and analytics, information retrieval and NLP.

Key successes:

- Developed components of an Object-Oriented Framework for text analytics. This framework eventually became part of apache UIMA Text-Analytics OSF, recently making news as a core component to IBM's Watson "Question Answering System" that formed part of the codebase for Watson, the Jeopardy-playing super computer.
- Managed numerous collaborative projects that succeeded at developing innovative prototypes adopted by other divisions within IBM including a knowledge management tool to help support staff being quickly offered the right answers to client queries and a system for mining and analyzing outbound calls to clients of a financial organization.
- Issued a patent with USPTO for a novel mechanism for performing cross-document anaphora resolution that disambiguated names and entities across documents. Received IBM Patent Filing Award. US Pat 6,438,543.

University of Delaware , Newark, Delaware, USA**February 1991 – August 1997***Project Lead / Post-Doctoral Fellow (September 1992 – August 1997)*

Led a five-person team for developing a speech and gesture controlled assistive robot as part of a five-year \$1+ million government-funded grant. Work involved natural language discourse understanding, speech recognition, human-computer interaction, reactive planning and plan recognition, image recognition and knowledge representation. Developed the distributed system architecture and implemented key components of the system. Key successes:

- Successfully implementation of a wheelchair mounted robotic arm that interacts with the environment on the basis of multimodal instructions.
- Published peer reviewed papers and an invited book chapter.

Graduate Research Assistant (February 1991 – August 1992)

Developed real-world applications for people with disabilities using advanced AI techniques.

Key successes:

- Created an object-oriented interpreted language called ADAPT, which was successfully used as an authoring language for an Alternate and Augmented Communication system for people with speech impairments.
- Developed an interpreter to parse and execute actions for an ATN network for a Natural Language Generation system to assist American Sign Language users in learning English as a second language.
- Developed a formal plan recognition model that distinguishes between exploration of alternative plans and commitment to a single plan for an Expert-Advisee natural language discourse understanding domain.

**Bangladesh University of Engineering and Technology
Dhaka, Bangladesh****August 1988 – August 1990***IT Strategy Consultant, Bureau of Research, Training, and Consultancy*

Provided IT strategy, planning and design expertise to public and private enterprises including the President's Secretariat, Government of the People's Republic of Bangladesh; National Public Service Commission; World Health Organization; and Telegraph and Telephone Board.

Lecturer, Department of Computer Science and Engineering

Taught core computer science courses and laboratories to undergraduate students of Computer Science and Electrical Engineering programs.

OTHER TEACHING EXPERIENCE

- Villanova University, Department of Computer Science
Adjunct Faculty, Summer 1997
- University of Delaware, Department of Computer and Information Sciences
Instructor, Winter 1990

EDUCATION

- **Ph.D.**, Computer Science, University of Delaware, Newark, DE, US
- **M.S.**, Computer Science, University of Delaware, Newark, DE, US
- **B.S.**, Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

SELECTED PUBLICATIONS AND PATENTS

- James W. Cooper, Mahesh Viswanathan, Zunaid Kazi. Samsa: A Speech Analysis, Mining and Summary Application for Outbound Telephone Calls. In Proceedings of the Hawaii International Conference on Systems and Sciences 2001, Hawaii, January 2001.
- Zunaid Kazi and Yael Ravin. Who's Who? Identifying Concepts and Entities across Multiple Documents. In Proceedings of the Hawaii International Conference on Systems and Sciences 2000, Hawaii, January 2000.
- Kazi, Z.K et al. US Patent 6438543, 2002. System and method for cross-document coreference.
- Yael Ravin and Zunaid Kazi. Is Hillary Rodham Clinton the President? Disambiguating Names across Documents. In Proceedings of the ACL 1999 Workshop on Coreference and Its Applications, Maryland, USA, June, 1999.
- Zunaid Kazi, Matthew Beitler, Shoupu Chen, Daniel Chester and Richard Foulds. Speech Mediated Intelligent Teleoperation. Assistive Technology and Artificial Intelligence, In Springer-Verlag Lecture Notes in Artificial Intelligence, Volume 1458, pp. 194-210, 1998.
- Zunaid Kazi and Richard Foulds. Knowledge Driven Planning and Multimodal Control of a Telerobot. Robotica, Volume 16, pp. 509-516, September 1998.
- Zunaid Kazi, Shoupu Chen, Matthew Beitler, Daniel Chester and Richard Foulds. Grasping at Straws: An Intelligent Multimodal Assistive Robot. In Proceedings of the 1997 International Conference on Rehabilitation Robotics (ICORR97), pp. 87-90, Bath, UK, April 1997.

- Zunaid Kazi, Shoupu Chen, Matthew Beitler, Daniel Chester and Richard Foulds. Multimodal HCI for Robot Control: Towards an Intelligent Robotic Assistant for People with Disabilities. In Proceedings of AAAI 1996 Fall Symposium on Developing Assistive Technology for People with Disabilities, pp. 46-52, August 1996.
- Zunaid Kazi, Shoupu Chen, Matthew Beitler, Marcos Salganicoff, Daniel Chester and Richard Foulds. Multimodal User Supervised Interface and Intelligent Control for a Rehabilitation Robot. In Proceedings of IJCAI-95 Workshop on Developing AI Applications for the Disabled, pp. 46-58c, Montreal, Canada, June 1995.
- Shoupu Chen, Zunaid Kazi, Richard Foulds and Daniel Chester. Multi-Modal Direction of a Robot by Individuals with a Significant Disability. In Proceedings of the Second International Conference on Rehabilitation Robotics (ICORR 94), pp. 55-64, Wilmington, DE, USA, July 1994.
- Patrick Demasco, Eugene Ball, Steiner Tyvand, Dennis Blodgett, William Bradley, John Dunaway and Zunaid Kazi. Towards Modular AAC Software: An Object Oriented Architecture. In Proceedings of the RESNA International '92 Conference, pp. 119-121, Washington, D.C.: RESNA Press, June 1992.
- Sandra Carberry, Zunaid Kazi and Lynn Lambert. Modeling Discourse, Problem-Solving, and Domain Goals Incrementally in Task-Oriented Dialogue. In Proceedings of the Second International Workshop on User Modeling, pp. 192-201, Dagstuhl, Germany, August 1992.