

CUNEYD C. KAYA, PhD

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EDUCATION

University of Texas, Dallas **Dec 2006**

PhD, *Management Science, Information Systems Concentration*, GPA: 3.6/4.0

- Graduate Scholarship at the University of Texas, Dallas
- Dissertation Title: “Essays on Web Content Distribution Management”
- Completed Research Projects:
 - “A Screening Technique for Delay Reduction in Proxy Caching” (with Yong Tan and Vijay Mookerjee), Under Review at Decision Support Systems
 - “Impact of Bursty Traffic on Content Distribution Servers: A Model and Empirical Validation”, (with Kutsal Dogan and Vijay Mookerjee)
 - “An Economic and Operational Analysis of the Market for Content Distribution Services”, (with Kutsal Dogan and Vijay Mookerjee), published in Proceedings of the International Conference on Information Systems, 2003, Seattle, WA

University of Texas, Dallas **Dec 2005**

MS, *Information Technology and Management*, GPA: 3.6/4.0

Istanbul University Institute of Business Economics, Turkey **July 1999**

Graduate Diploma, *International Management*, Highest GPA in Class, 3.9/4.0

Istanbul Technical University, Turkey **Aug 1998**

BS, *Mathematics Engineering*, GPA: 2.6/4.0

PROFESSIONAL WORK EXPERIENCE

School of Management, University of Texas, Dallas **Aug 2000 – May 2006**

Research Assistant

- Designed the system architecture and developed the simulation tools used in the following projects using **MS Excel VBA, Visual Basic.NET, SAS, SQL, MATLAB and Mathematica**:
 - **Demand Generator for a Proxy Server**: Developed a mathematical model to identify the pattern of requests coming to a Web proxy server
 - **Demand Trace Extractor and Analyzer**: Developed an efficient technique to extract valuable data from raw proxy server log data that can process several thousands of data points in a few seconds.
 - **Proxy Caching Algorithm Simulator**: Developed an efficient extension to improve performance of common Proxy server algorithms (namely LRU, LAT and GD-Size). The end-user delay is improved more than 50% over the existing algorithms
 - **Server Workload Analysis Simulator**: Built an efficient simulator that calculates the web content server processing capacity under different user traffic patterns
- Performed data transformation, manipulation and multivariate analysis using **SAS** and **Gauss**
 - **Customer Panel Data Analysis**: Performed statistical analyses to retrieve useful information from grocery store data. Product attributes that trigger the consumer purchase were statistically analyzed and reported

AYZ Management Info. Sys. Ltd., Turkey **July 1999 – May 2000**

Management Consultant

- **Business Process Reengineering**
Industries: Steel Manufacturing, Packaging, Wholesale Food, Women’s Apparel
 - Performed extensive business process analysis through surveys and questionnaires at the client site

- Improved the business process flows for optimal custom ERP solution implementation strategy using **MS Excel VBA** and **MS Access VBA**
- Improved the decision making process for the executive team, which implied significant cost savings
- Customized Logo Business Solutions' domestic market-leading ERP solution to fit clients' business process needs and managed the implementation phase
- Coordinated a new inventory coding technique to fit the customized ERP solution
- Systemized business processes and re-designed workflow in the Accounting and Finance Departments
- ***Business Forecasting and Reporting System Development***
Industries: Wholesale Food, Steel Manufacturing, Packaging
 - Managed the development of a complete solution for the executive team that effectively reduced total decision making time to 4 hours, which was initially 2 weeks, using **MS Excel VBA** and **MS Access VBA**
- ***Financial Analysis and Reporting System Development***
Industries: Wholesale Food, Packaging
 - Managed the early development phase of a custom Financial Portfolio Management tool
 - Developed basic understanding of financial instruments analysis and hedging techniques
 - Designed reporting module of the system

ACADEMIC WORK EXPERIENCE

School of Management, University of Texas, Dallas

May 2003 – May 2006

Instructor

- Taught various undergraduate MIS courses (Programming in Visual Basic, Database Fundamentals) with full responsibility
- Had higher evaluation scores than the 90% of the faculty teaching in the School of Management
 - Evaluated at 4.8 out of 5.0 by the students in Overall Evaluation
 - Evaluated at 4.6 out of 5.0 by the students in Instructor's Contribution

School of Management, University of Texas, Dallas

Aug. 2000 – May 2006

Research Assistant

- Designed the curriculum and developed examples for E-Business Technologies course at the Executive MBA program
- Managed Executive MBA student year-end projects in E-Business Technologies course
- Designed, developed and maintained Course Management System in WebCT for the MIS department
- Prepared exams, assignments and teaching tools for various MIS courses

COMPUTER SKILLS

Languages	VB.NET, HTML, CSS, JavaScript, VB Script, ASP, SQL, VBA, Perl (Beginner),
Framework	.NET CLR, Winforms, ADO.NET
Operating Systems	Windows Server 2000/2003/XP/NT, UNIX/LINUX, MacOS
Databases	MS Access, SQL Server 2000, Oracle
Tools	Visual Studio 2003, Microsoft Office, Visio 2003, IIS 5.0/6.0, SAS, Gauss, Mathematica, Maple, MATLAB