ÖZGÜR BALSOY

EDUCATION

May 1997 - present   Syracuse University   Syracuse, NY, USA
Ph.D., Electrical and Computer Engineering and Computer Science
- Cum. GPA: 3.59/4.00

Aug 1995 – May 1997 Syracuse University   Syracuse, NY, USA
M.S., Electrical and Computer Engineering and Computer Science
- GPA: 3.53/4.00

Oct 1988 – May 1993 Ege University   Izmir, Turkey
B.S., Computer Engineering
- GPA: 78/100

Graduate
Course Profile   Technology and Applications for the Information Age
Advanced Web Technologies
Multimedia Information systems
Object-Oriented Design
Object-Oriented Database Management Systems
Computer Architecture
Design and Analysis of Algorithms
Principles of Operating Systems
Introduction to Artificial Intelligence
Expert Systems
Structured Programming and Formal Methods
Theories of Computation and Complexity

PROJECTS

Student Records and Assessment System for Course Support
- A course management system with online public interfaces and a database back-end to provide an environment for both students and teachers to exchange course information over the Internet.
- Used technologies: Java Servlets, JDBC, and XML/XSL; multi-tier Web architecture.
- Actively used by students in on-campus and off-campus courses given by NPAC, Syracuse University.
- Instructor: Geoffrey C. Fox, gcf@npac.syr.edu

An Interface to a Real Time Signal Processing System
- A multi-window and -threaded Windows interface application to a real-time signal processing system, which were developed by two teams, software and hardware.
- Managed the software team of one undergraduate and two graduate students.

- Written in Borland C++ Builder 4.0 with database connectivity.

Advisor: Kivanc Dincer, kdincer@saturn.eng.baskent.edu.tr

Object-Oriented Database Management System

- A complete database management system developed in C++.
- Implements object-oriented schema definitions, and a simple object-oriented query language in accordance with OMG standards.
- Instructor: Roger Chen, rchen@cat.syr.edu.

Visualization of the Periodic Table of the Elements

- Performs element information queries and 3-D solar modeling of the elements' atoms in VRML.
- Instructor: Geoffrey C. Fox, gcf@npac.syr.edu.

NetBoard, A Collaboratory Whiteboard for the Internet

- An environment to develop, save, and browse course materials on the Internet.
- Developed using Java and CGI programming with Perl.
- Instructor: Roger Chen, rchen@cat.syr.edu.

PUBLICATIONS

- Sen, M, Balsoy, O, Fox, G.C. and McCracken, N.J., "Course Management: A Complete Asynchronous Environment Architecture in Education," *Webnet 99 Abstracts book - p.86*, WebNet 99, World Conference on the WWW and Internet, Honolulu, Hawaii

AWARDS RECEIVED

- Chairperson of the Syracuse University ACM Student Chapter, Fall 96-Spring 98.
- Teaching and Graduate Assistantships through Fall 96 to Fall 99 at Syracuse University and Northeast Parallel Architectures Center, Syracuse, NY.
- Awarded scholarship for Master's study abroad by the Ministry of Education, the Republic of Turkey.
- Awarded scholarship for high school by TUBITAK, Scientific and Technical Research Council of Turkey.

WORK EXPERIENCE

August 1996 – present Northeast Parallel Architectures Center Syracuse, NY

Graduate Research Assistant

- Advisor: Dr. Geoffrey C. Fox, gcf@npac.syr.edu
- Nancy J. McCracken, njm@npac.syr.edu

Teaching Assistant

- Teaching assistant for various courses given by NPAC, Syracuse University, to teach students the basic programming skills and languages that are needed to implement distributed Web applications such as,

CPS 606 Programming for the Web
CPS 616 Computational Science for Information Applications
ECS 400 Software Technologies

June 1999 – August 1999 Baskent University Computer Engineering
Department, Ankara, Turkey
Project Manager/Instructor
- Managed a software project mentioned in Projects above.
- Given a series of seminars in recent Web technologies such as ActiveX and OLE, JavaScript, Java, HTML, XML, Java Servlets, and CORBA.

October 1993 – August 1994 Ege University Computer Center Izmir, Turkey
Systems Programmer
- Developed software on an IBM 3090 VM/SP CMS mainframe.
- Installed and maintained the Internet services (i.e. WWW, gopher, FTP) of the university on the DEC Alpha AXP workstations and the IBM mainframe.
- IBM Technical Education. Formal Training on VSE/SP and CICS.

May 1993 – August 1993 Chronicle AS   Izmir, Turkey
Programmer
- Worked in a group project developing a patient information database for dentists using Visual Basic and Paradox Database Engine.

July 1992 – August 1992 Petkim AS   Izmir, Turkey
Summer Internship
- Developed a database maintenance program of expenses employees make in recreation areas to deduct from payrolls using VSE/CICS, SQL and PL/1.

January 1992 – September 1993 Distas AS   Izmir, Turkey
Part-time LAN Manager, Programmer
- Responsible for the setup and maintenance of the company's local area network running Novell Netware 3.12.
- Developed software in Visual Basic over the network.

June 1991 – December 1992 Ege University Computer Center Izmir, Turkey
Lab Instructor
- Consulted people in public courses teaching how to use PC-DOS, BASIC, and MS Windows.

COMPUTER SKILLS

Web Technologies
- Internet servers, install and management of a complete site, experience with NCSA, Apache, and MS IIS Web servers, Washington University FTP server.
- Java, HTML, XML, XSL, Perl, VRML, CGI scripting, awk, shell scripts

- JDBC, Java RMI, Java Servlets, and Oracle Web connectivity solutions
- Two-tier, three-tier, and multi-tier system solutions
- Client/server, and collaboratory application development
- Owner of the information and service based Web site about Turkey, www.balsoy.com

Languages

- Visual BASIC, C/C++, Object Pascal, Prolog, SmallTalk, LISP, CLIPS
- REXX, PL/1, FORTRAN, Assembly

Operating Systems

- Unix, MS-Windows, MS-DOS, Mac OS, VM/CMS

Architectures

- DEC Alpha AXP, Sun, IBM 3090 and 4341, Intel 80x86 compatibles, Z80s

Software

- MS Office components: MS Word, Excel, PowerPoint, and Access
- Web Authoring tools: NetObjects Fusion, MS FrontPage, MS InterDev
- Graphics development: Adobe PhotoShop, Corel DRAW
- Software development: Borland C++ Builder, Visual Cafe, Borland JBuilder, MS Visual Studio