



M. Elgin Akpınar
 Computer Engineer at TechN'arts and
 Graduate Student at METU Computer
 Engineering Department

Personal Information

Date of Birth: 06.06.1988
Place of Birth: Muğla
Marital Status: Single
Military Status: Postponed to Dec. 2015

Contact Information

Address: 100. Yıl İşçi Blokları Mah. 1507/1 Sokak 30. Blok No: 9/7 Ankara
E-mail: elgin.akpinar@(gmail.com|metu.edu.tr)
GSM: +905555645427
Web: <http://www.elginakpinar.com>

Education

Middle East Technical University, Ankara, Turkey	<i>2014 – Present</i>
Ph.D. in Computer Engineering Department	
Middle East Technical University, Ankara, Turkey	<i>2011 – 2014</i>
M.Sc. in Computer Engineering Department	
Middle East Technical University, Ankara, Turkey	<i>2006 – 2011</i>
B.S. in Computer Engineering Department	
Muğla 75 th Year Science High School, Muğla, Turkey	<i>2002 – 2006</i>

Professional Experience

Comodo, Ankara, Turkey	<i>Jan. 2015 – Present</i>
https://www.comodo.com/	
TechN'arts, Ankara, Turkey	<i>Oct. 2011 – Dec. 2014</i>
http://www.technarts.com	
MikroBeta, Ankara, Turkey	<i>Nov. 2010 – Oct. 2011</i>
http://www.mikrobeta.com.tr	
Minder IT Solutions, Ankara, Turkey	<i>Mar. 2010 – Jun. 2010</i>
http://www.minder.com.tr	
YD Software Co. Inc.	<i>Jun. 2009 – Jul. 2009</i>
http://www.ydyazilim.com	

Technical Skills

Programming Languages	C/C++, Java, PHP, Python, Scheme, Haskell, PL/SQL
Operating Systems	Windows (XP, Vista, Win 7), Linux (Ubuntu), Android
DBMS	MySQL, PostgreSQL, Oracle, SQLite, MongoDB, Cassandra, Neo4j, HBase, Redis
Web Development	HTML, CSS, JavaScript, ActionScript, AJAX, Google Web Toolkit, Django, Zend, CodeIgniter, ExtJS, JQuery, Less, D3.js
IDEs	NetBeans, Eclipse
Type Setting	L ^A T _E X, Open Office, Microsoft Office
Others	JAX-WS, JAX-RS, JPA, JDBC, JSP, NodeJs, Hibernate, Maven, Teradata, Unity3d, Adobe Flash, Adobe Photoshop, OpenGL, Compiler Design Using AntLR, SVN, Git, Ontologies, OWL API, NLTK, Hermit, Mozilla Firefox Extension Development, Android Mobile Application Development, MS Visio, PowerDesigner

Projects

Web Based Pharmacy Software with Decision Support Utility

Current pharmacy software products only provide desktop solutions, which result in update and back-up problems. Also, they are incapable of providing decision support, which would help pharmacists in their daily operations. This ongoing R&D project aims to provide a web based pharmacy software which includes decision support and knowledge engineering utilities to guide pharmacists. The project is supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK).

Keywords: Java, JAX-RS, Hibernate, JavaScript, MySQL, ExtJS, TEYDEB 1507

Vegetable Products Database

The project aims to develop a knowledge base for vegetable products. The application is used to define characteristics of products, including their side effects, interactions with drugs, and so on. The project has been carried out in association with HİZBİM (Hacettepe İlaç ve Zehir Bilgi Merkezi).

Keywords: PHP, JavaScript, MySQL, CodeIgniter, ExtJS, TEYDEB 1507

Karel Request Management Version 2

This application enables "Karel" to manage the records of cases and help requests of the partner telecommunication companies. Request records are directed to the related companies according to defined workflow and necessary actions are taken until the end up.

Keywords: PHP, JavaScript, MySQL, CodeIgniter, ExtJS

TÜBİTAK BİLGEM Inventory Management System

The system aims to follow the inventories in the stocks of the warehouses, project departments and subcontractors of TÜBİTAK – BİLGEM and to provide a communication platform between project managers and warehouse supervisors for inventory and procurement requests.

Keywords: PHP, JavaScript, MySQL, CodeIgniter, ExtJS

Turkish Pharmaceutical Track and Trace System (İTS) <http://its.technarts.com.tr/>

İTS is the application of the well-known "Track & Trace" structure applied to the pharmaceutical industry and it defines the infrastructure constructed to track and trace all units belonging to each pharmaceutical product in Turkey. In this project, I have worked as a member of Java Team for ten months. In following three months, I have been in charge of developing a data warehouse for decision support system. I also developed Python based log analyzer and a mobile application to test web

services.

Keywords: Java, JAX-WS, Web Services, Oracle, PL/SQL, Python, Glassfish, Data Mining, Teradata

eMine: Web Page Transcoding Based on Eye Tracking <http://emine.ncc.metu.edu.tr/>

The World Wide Web (web) has moved from the Desktop and now is ubiquitous. It can be accessed by a small device while the user is mobile or it can be accessed in audio if the user cannot see the content, for instance visually disabled users who use screen readers. However, since web pages are mainly designed for visual interaction; it is almost impossible to access them in alternative forms. The overarching goal of the project is to improve the user experience in such constrained environments by using a novel application of eye tracking technology. In brief, by relating scan paths to the underlying source code of web pages, we aim to transcode web pages such that they are easier to access in constrained environments. The project is supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK).

Keywords: Java, Accessibility, Ontologies, Knowledge Engineering, Eye Tracking

Eclipse - Accessibility Tools Framework (ACTF) <http://www.eclipse.org/actf/>

ACTF is a framework that serves as an extensible infrastructure upon which developers can build a variety of utilities that help to evaluate and enhance the accessibility of applications and content for people with disabilities. A collection of example utilities are provided which were created on top of the framework such as compliance validation tools, assistive technology simulation applications, usability visualization tools, unit-testing utilities, and alternative accessible interfaces for applications. I contribute to the project as a committer by implementing VIPS Algorithm as an example segmentation utility.

Keywords: Java, Eclipse, Accessibility

SNMP Agent & Network Simulator <http://senior.ceng.metu.edu.tr/2011/cennetelmasi/>

SNMP Agent & Network Simulator is a network simulator which creates a virtual network environment and IP devices to test them in this environment. The software product, Hurma, is a web-based application and can be accessed from any browser. Hurma is Java based and was developed using Google Web Toolkit. The project was sponsored by Siemens EC.

Keywords: Java, GWT, SNMP, XML

Printing Module of Milas <http://www.milasweb.com/>

Milas is an online library automation system, which included offline label printing utility. I have developed an online printing module which is integrated with Milas. Being my first professional project, the project helped me to improve my PHP and PostgreSQL skills.

Keywords: PHP, PostgreSQL

Others

Automation System of Mary Provincial Library of Turkmenistan

Automation System of Embroideries Project for Ministry of Culture and Tourism

Online CRM System

Keywords: PHP, MySQL

Languages

Turkish: Native

English: Advanced

French: Beginner

Academic Interests

Data Mining, Computer Graphics, Natural Language Processing, Parallel Computing, Knowledge Engineering, Compiler Design, Accessibility

Conferences, Seminars and Workshops

International Conference on Web Engineering (ICWE), Aalborg, Denmark	Jul. 2013
Engineering Mobile Web Applications (EMotions'2013), Aalborg, Denmark	Jul. 2013
Developing Enterprise Applications with JavaEE Seminar, Eteration Academy, Ankara	Mar. 2013
Health Informatics and Bioinformatics Technology, Nevşehir	Apr. 2012
Akademik Bilişim 2012, Uşak	Feb. 2012
Akademik Bilişim 2010, Muğla	Feb. 2010
Computer Engineering Students Congress (BİLMÖK), METU, Ankara	Feb. 2009
Sun Open-Source University Meetup (OSUM), METU, Ankara	Feb. 2009
Bilge Adam Web Applications with C# Seminar, METU, Ankara	Nov. 2008

Publications

- M. Elgin Akpınar, Yeliz Yeşilada: "Old habits die hard!": eyetracking based experiential transcoding: a study with mobile users. Proceedings of the 12th Web for All Conference. W4A '15, pp. 12:1–12:5. Florence, Italy (2015)
- M. Elgin Akpınar, Yeliz Yeşilada: Vision Based Page Segmentation Algorithm: Extended and Perceived Success. In: Sheng Q. Z. and Kjeldskov J. (eds.) Current Trends in Web Engineering - ICWE 2013 Workshops and PhD Symposium. Lecture Notes in Computer Science, vol. 8295, pp. 238-252. Springer (2013)
- M. Elgin Akpınar, Yeliz Yeşilada: Heuristic role detection of visual elements of web pages. In: Daniel, F., Dolog, P., Li, Q. (eds.) Web Engineering. Lecture Notes in Computer Science, vol. 7977, pp. 123-131. Springer (2013)
- S.M. Altunkan, A. Yasemin, I.T. Aykac, E. Akpınar, "Turkish pharmaceuticals track & trace system," Health Informatics and Bioinformatics (HIBIT), 2012 7th International Symposium on , pp.24,30, 19-22 April 2012

Certificates

- Driving License (B Class)
- International Diver Certificate (CMAS – One Star Diver)
- Statement of Accomplishment with Distinction, *Introduction to Systematic Program Design – Part 1 (MOOC in Coursera)*, Department of Computer Science, University of British Columbia

Memberships

- Eclipse ACTF Project (as a committer)
- BMO
- METU Sub Aqua Sports Society
- METU Fine Arts Society
- METU Humor Society
- Evrin Çalışkanları – Member of Wiki Team

Hobbies

Cartooning
Scuba Diving and Freediving
Computer Animations
Graphical Design
Underwater Photography

Positions of Responsibility

Technical Responsible for Free Diving in METU Sub Aqua Sports Society *2009*
Member of Supervisory Board of METU Sub Aqua Sports Society
Board of Management in METU Sub Aqua Sports Society *2008*
Board of Management in METU Humor Society

Awards

Silver Medal in the Turkey Dynamic Apnea Championship (as a team) *2009*
Encouragement Award in the Cartooning Field of KYD Art Awards *2009*

Special Activities

Organizer and artist in 6 exhibitions in METU in 2009
Participant as an artist in a cartoon exhibition in Greece in 2009
Competitor in 2008 and 2009 Dynamic Apnea Championships and 2008 Jump Blue Championship in Turkey
Official in Devrim Cenk Ulusoy's 83 Meters World Record Attempt in 2008
Member of the Organization Team of Dynamic Apnea Turkey Championships in 2007, 2008 and 2009