

MUHSIN ZAHID UGUR

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Educational Background

PhD candidate in Computer Science at the University of Houston

[2012 – Present, Houston, Texas, US]

Master's Degree in Computer & Information Sciences at the University of Delaware

[2009 – 2011, Newark, Delaware, US]

Bachelor's Degree in Mathematical Engineering at Yildiz Technical University

[2003 – 2007, Istanbul, Turkey]

Professional Experience

iOS app – Mood Weather [general use]

University of Houston

Records emotions of people and their causes. This facilitates the mapping of feelings on a continuous basis and across scales – from individual to the city and the country level.

iOS app – Clinical App [clinical research]

University of Houston

Gathers data from patients and populate doctors' databases ubiquitously.

iOS app – Grid Design [clinical research]

University of Houston

Tests the validity of four user interface designs for a 2-dimensional psychometrics test.

Teaching Assistant

University of Houston

Summer 2015 - Data Structures

[2014 - Present, Houston, Texas, US]

Spring 2015 - Data Structures

Fall 2014 - Object oriented programming

Spring 2014 - Data Structures

Graduate Assistant at Educational Assessment Office

University of Delaware

[2011 – 2012, Newark, Delaware, US]

Software Developer

7Gen Information and Communication Services

[2006 - 2008, Istanbul, Turkey]

ERP Project – Reporting module

Used Crystal Reports, Reporting Services and SQL Server to develop reporting module and interface between reporting and main modules and to control data management.

MIS Project

Administration of BI Infrastructure and ETL Operations of Istanbul Transportation Corp.

DMS (Document Management System) Project

Used C# to develop modules for a document management system developed for Ulker, the leading biscuit producer in Turkey.

Publications

Ugur, M., Shastri, D., Tsiamyrtzis, P., Dcosta, M., Kalpakci, A., Sharp, C. & Pavlidis, I (2015, September). Evaluating Smartphone-based User Interface Designs for a 2D Psychological Questionnaire. The ACM International Joint Conference on Pervasive and Ubiquitous Computing 2015. Osaka, JAPAN.

Uyanik, I., Khatri, A., Majeti, D., **Ugur, M.**, Shastri, D. & Pavlidis, I. (2015, April). Using Accelerometer Data to Estimate Surface Incline and Its Walking App Potential. The ACM CHI Conference 2015. Seoul, KOREA.

Projects

Clustering with Weka

University of Delaware

Lucene indexer and searcher implemented for ClueWeb09 corpus for Web Track in TREC.

Hospital-Patient Scheduling

University of Delaware

JAVA and AgentSpeak used in creating a medically prioritized hospital system with autonomous agents.

Letter Prediction in a Scanning—based AAC System

University of Delaware

C and Brown Corpus with bigram modeling used to do letter prediction in increasing communication rate for an AAC (Augmentative or Alternative Communication) System user.

Designing and implementing a bank server

University of Delaware

TCP used to perform transactions on a bank server used by the clients.

Modeling a pharmacy

University of Delaware

C language and E-R diagrams with MySQL used in handling transactions in a pharmacy.

Technical Skills

Languages: C, Objective C (iOS Programming), C++, C#, Java, PHP, XML, HTML, SQL, Perl, AgentSpeak (Multi-Agent Programming), R

Tools: Xcode, Jason (multi-agent systems), WEKA (data mining), Business Intelligence tools (Microsoft Reporting, Integration and Analysis Services), MS SQL Server, Crystal Reports, ETL database operations

Achievements

– Ranked among the top 5% in a test in Turkey and acquired a scholarship that covers all expenses of the graduate school in the US.