Farshid Zavareh

Contact Information

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Education

Bachelor of Computer Sciecne (Honours) July 2010 – present
Faculty of Information Techonology,
Monash University, Australia
- Thesis: Learning from Very Large Amounts of Data

Minor in Mathematics (Stochastic Systems)

Achievements
- Noel Craske Award for achieving the highest result in the Faculty in Database Management, Monash University, 2012
- Summer Research Scholarship, Monash University, 2012
- NICTA Summer Scholarship, Monash University, 2013
- Summer Research Scholarship, Monash University, 2013 (offer withdrawn due to NICTA scholarship acceptance)
- Winter Research Scholorship, Monash University, 2014

Teaching

Algorithms and Data Structures (FIT2004) Semester 2, 2014
Clayton School of Information Technology,
Monash University, Australia

Algorithmic Problem Solving (FIT1029) Semester 1, 2015
Clayton School of Information Technology,
Monash University, Australia

Key Related Projects

DORIS (Dialogue Oriented Roaming Interactive System) January 2013 – present
- Applying a probabilistic approach to develop a dialogue module for a robot. Worked on a speech recognition server that takes spoken input in real time and interacts with the rest of the language interpretation module
- Two conference papers published based on the results. See Publications section
- Supervisor: Prof. Ingrid Zukerman, Monash University

Creative Evolution of Complexity
- Zero-credit Advanced Project subject
- Implementation in Java and further development of an existing artificial life simulation of an ecosystem so that it grows exponentially in complexity
- Researched and presented findings in a written report and an oral presentation
- Supervisor: Dr. Kevin Korb, Monash University

Maze Solving Robot
- High school team project
- Designing and programming a maze solving robot for Islamic Azad University competitions in Iran

A CAPTCHA Control for ASP.NET 2
- An easy to use CAPTCHA control writeen in C# for use in .NET web applications
- Published under LGPL at http://www.codeproject.com/Articles/13209/A-CAPTCHA-Control-for-ASP-NET and on SourceForge
- Article attained 4.87/5 rating from readers so far

IT Related Experience

Lead Programmer August – December 2009
Ide Pardazan Co., Tehran, Iran

Responsibilities
- Design and implementation of the back-end of a Learning Management System
- Leading a team of two other developers
- Interacting with UI team for integration of UI and the back end

Skills and Competence

Core Competence in Computer Science and Mathematics

- Algorithms and data structures
- Classification and regression
- Knowledge representation
- Machine learning
- Probability theory and statistics
- Random processes
- Single and multivariable calculus

Programming Skills

- Java, C#, C, Python, Perl, MATLAB, R, Shell Scripting
- SQL (Microsoft SQL, MySQL)
- Mobile application development (Java for Android)
- Web development (HTML/CSS, JavaScript, ASP.NET)
- Object-oriented programming
- Version control systems (Git, SVN)

Productivity Applications

- IDEs: Eclipse, NetBeans, Microsoft Visual Studio
- MATLAB
- Python (NumPy, SciPy, SymPy)
- Vim

Operating Systems

- Linux (Ubuntu)
- Microsoft Windows Family

Certifications

Microsoft Certified Professional August 2007
Microsoft .NET Application Development Foundation (C#)

Publications

- S.N. Kim, I. Zukerman, Th. Kleinbauer & F. Zavareh. 2013. A Noisy Channel Approach to Error Correction in Spoken Referring Expressions. In *Proceedings of the 6th International Joint Conference on Natural Language Processing*, Nagoya, Japan.
- F. Zavareh, I. Zukerman, S. N. Kim & Th. Kleinbauer. 2013. Error Detection in Automatic Speech Recognition. In *Proceedings of the Australasian Language Technology Association Workshop 2013 (ALTA 2013)*, Brisbane, Australia

Extra-Curricular Activities

Mental Health First Aid Course March 2012
The Mental Health First Aid Training and Research Program (MHFA), University of Melbourne

Interests and Hobbies

- Reading: novels, history, political books and magazines
- Films: action, comedy, crime, history
- Video games
- Sports: hiking, running, swimming