AMIR KANAN KASHEFI

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Academic Qualifications **(Assessed by Australian Computer Society)**

- ✓ M.Sc. Computer Science, University of Putra Malaysia (UPM), Malaysia, 2010.
  - **Thesis:** Design and development of an XML based component specification for retrieving components from the repository by using Java (Swing).
  - **Supervisor:** Professor Dr. Abdul Azim Abd Ghani.

- ✓ B.Sc. Computer Science, University of Science Malaysia (USM), Malaysia, 2008.
  - **Project:** Design and Implementation of an Insurance Website by using ASP.net and SQL.
  - **Supervisor:** Professor Dr. Abdullah Zawawi Hj Talib.

Technical Skills

- **User interface designing**: Strong skills in creating user flows and wireframes to building user interface mock-ups and prototypes
- **Areas:** Ontologies, Non-functional Requirement Engineering, MVC Architecture
- **Languages:** Java (including Swing), C++, VISUAL C++, JQuery, VB script, Java script, SQL, VBA, Prolog, HTML5, ASP Classic, XML, RDF
- **Applications:** Eclipse IDE, Apache Jena, Protégé Ontology Editor, NetBEANS IDE, Apache Velocity, Jasper Reports, InteliJ, JIRA, GIT & SVN Version Control Systems, UML, Waterfall & Agile Methodologies
- **Operating Systems:** Windows, Basics of Linux
- **Database Systems:** MS access , MySQL, SPARQL
- **Frameworks:** AngularJS, Hibernate, Spring, Hibernate Criteria API, theoretical knowledge of OSGi, Junit, Mockito, REST
- **Research and Technical Interests:** Current work is in the areas of non-functional requirements and ontologies. General topics of interest in genetic algorithm and developing simple applications for solving Knapsack and TSP problems

Employment History (Assessed By Australian Computer Society)

1. **Department of Computer Science, University of Adelaide** – Australia (August 2012 – Present) as a part time member of Defence Information Group.

    - ✓ **Thesis**: Semantic Component Selection Based On Non-functional Requirements Ontology
    - ✓ **Description**: Developed a framework that provides the necessary tools and techniques for automating reasoning, which is required for software component selection, including: non-functional requirements ontology as a conceptual model for reasoning, and a search algorithm that matches the best component according to the reasoning process outputs. To validate the framework, I developed a prototype implementation that supports semantic search of a repository to locate matches for a user query. A few experiments conducted on different sizes component descriptions repositories shows the retrieved components are the most relevant components in our repository.
    - ✓ **Using**: Java, Swing
    - ✓ **Supervisor:** Associate Professor Dr. Katrina Falkner

2. **R | B | R | S** - Adelaide, Australia (May 2014 – Present) as a part time Java Developer

    - ✓ Implementing a MVC based web application
    - ✓ Participating in view layer development of the project using Java, JSP, Bootstrap and JavaScript
    - ✓ **Using**: SQL Server, Thymeleaf, REST, Hibernate, Spring, JSON And Jetty Application servers.

3. **Department of Computer Science, University of Adelaide** – Australia (2014 Semester 1) as a teacher assistant

    - ✓ **Course Name**: COMP SCI 1013 Puzzle Based Learning
    - ✓ **Duties**: Read and mark papers and exams in consultation with the course instructor
    - ✓ **Puzzle Based Learning**: This course discusses a variety of puzzles to increase the student's mathematical awareness and problem-solving skills

4. **iMEX ESPRIZ** -Tehran (October 2010 till August 2012) as a Software Engineer.

5. **iMEX ESPRIZ** -Tehran (September 2008 till October 2010) as a Remote Project Team Member.

6. **Department of Computer Science and Information Technology, UPM** – Malaysia (2009 – 2010) as a Teacher assistant.

7. **Department of Computer Science**, USM – Malaysia (2006-2007) as a Teacher assistant.

8. **Department of Mechanical and Manufacturing Engineering, UPM –** Malaysia (Feb 2005 – Sep 2005) as a trainee Research Intern.

   8.1. **Project**: Fuzzy Logic For Machining Data Selection In End Milling

   - ✓ **Description**: Implementation of part of GUI and Development of fuzzy model.
   - ✓ **Using**: Visual C++.

   8.2. **Project**: Design and Development of Four Nodes 2D Element with O-O Approach.

   - ✓ **Description**: Modifying and optimizing the project Code to be capable of executing more rapidly and operating with less memory storage.
   - ✓ **Using**: C++.

   8.3. **Project**: C.V. Automation.

   - ✓ **Description**: Analysis, design and implementation of C.V system.
   - ✓ **Using**: MS Access and VBA.

9. **iMEX ESPRIZ**-Tehran (February 2003 till March 2004) as an IT Consultant.

- Assist with process, data and object modelling in a variety of application and database environments.
- Planning, organizing and implementing new policies and techniques for the development of applications.
  - Such as : Bank Management system
- Contribute to system architecture analysis, design, development and enhancement.
  - Using : ASP Classic , VB Script
- Lead minor projects and assists junior level staff with minor projects.
- Develop code documentation supporting program development.
- Write and maintain system design documentation.