Maryam Arab Ph.D. student

Department of Computer Science Volgenau School of Engineering George Mason University

4400 University Drive, MS 4A5, Fairfax, VA 22030

Research Area

Investigating how human computer interaction would be effective in designing programming tool and how to blend machine and human intelligence.

Exploring ways to describe programming skills more explicitly through programming strategies describe a specific sequence of steps a developer can follow to successfully finish a programming task.

We presented a novel notation for *designing a programming language* and a novel *strategy tracker tool* that explicitly represent programming strategies and frame executing strategies as a collaborative effort between human abilities to make decisions and computer abilities to structure process and persist information.

Research Interests

Software tools design and development Human-computer interaction Datamining

Employment	
George Mason University	Jun 2018 -Present
Research Assistant	
Department of Computer Science	
	January 2017-May 2017
George Mason University	
Teacher Assistant	
Department of Computer Science	May 2016 August 2016
	May 2016 – August 2016
Nexus Direct	
Intern	
Design and development of WordPress website	
Develop theme and custom fields for the website	
Old Dominion University	January 2014 – August 2016
Graduate Research Assistant	
Department of Computer Science	
Agah Information Co.	April 2013 – Jun 2014
Software Engineer	P
Design and development of "I Shop" (Java, Grails, Groovy)	
Graphic and UI Designer (HTML, jQuery)	
Website design and development (WordPress, PHP)	
Aryans Arzeshpardaz Investment Consulting Co.(AAICCO)	October 2011 – April 2013
Software Developer, Network Admin	
Designed and implemented holding software system (C#)	
Developed company's evaluation system (C#)	
Developed portfolio management system (Java, Grails, Groovy)	
Automated Test (Asp .Net)	

http://MaryamArab.ml marab@gmu.edu maryam.arab83@gmail.com linkedin.com/in/maryam-arab

	Network Maintenance Team Foundation Server administration SharePoint Portal	
	Informatics Co. re Developer Design and development of "Sharif University of Technology" Card producer(C#) Development of a Data mining project for "Bank Saderat of Iran" (Asp .net)	Dctober 2007 – November 2011
Educatio Ph.D. i	ו ה Computer Science George Mason University Advisor: Thomas Latoza	January 2017- Present
	in Computer Science Old Dominion University Thesis: Detecting On-street parking spaces using pedestrian cellphone Magnetometer internal sensor Propose a sensor based Mobile application for detecting the curb side parking spot Design a Mobile application to detect the street lane number in which the car is driven Advised by Tamer Nadeem	August 2014 - August 2016
B.S. in	Electrical and Computer Engineering Department of Engineering Tehran Markaz University	August 2002-February 2007
Technica Platfor		

Platforms Programming Skills Web Development	Ubuntu Linux, Windows, Mac Java, Android, C#, C++, ASP.net, PHP, Groovy HTML, CSS, JavaScript, XML, Grails, JQuery, JSON, Spring Framework, Hibernate, Spring MVC
Software Development Methodologies	Agile, OOAD, UML
Software Development Tools	IntelliJ Idea, Eclipse, MS Visual Studio .Net, Android Studio, Team Foundation Server, SharePoint Server, Apache MAVEN, Apache ANT, CVS, SVN, JUnit, Git, Any continues integration systems (bamboo, cruise control), testing (selenium)
Database Management Systems	MySQL, MS SQL Server, Firebase

Publications

[C3] Thomas D. LaToza, Maryam Arab, Dastyni Loksa, and Andrew J. Ko – Explicit Programming Strategies-TSE-2018(under revision)
[C2] Maryam Arab, Tamer Nadeem. MagnoPark - Locating On-Street Parking Spaces Using Magnetometer-Based Pedestrians' Smartphones. SECON 2017: 1-9
[C1] Jing He, Dong Si, Maryam Arab. Detection of Secondary Structures from 3D Protein Images of Medium Resolutions and its Challenges. ICIG (2) 2015: 147-155