

Khadijah AL SAFWAN

Computer Science Ph.D. Candidate

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📍 Blacksburg, Virginia, United States of America | Dhahran, Eastern Province, Saudi Arabia



I am a graduate student in the **Virginia Tech Department of Computer Science** and my advisor is professor **Francisco Servant**. My research area is **Software Engineering** including software changes comprehension and software visualization. I am interested in helping software developers understand the evolution of software and improve their productivity.

EDUCATION

📅 2018 - Now	Ph.D. in Computer Science	🏢 Virginia Tech	📍 Blacksburg, VA, USA	🎓 3.93/4
📅 2016 - 2018	MS in Computer Science	🏢 Virginia Tech	📍 Blacksburg, VA, USA	🎓 3.9/4
📅 2011 - 2015	B.S. in Computer Science	🏢 University of Dammam	📍 Dammam, Eastern, KSA	🎓 4.71/5

PUBLICATIONS

📅 2019	👥 Khadijah Al Safwan and Francisco Servant	📍 Tallinn, Harju, Estonia
	📄 Decomposing the Rationale of Code Commits: The Software Developers' Perspective	
	📄 Proceedings of the ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/SIGSOFT FSE 2019)	
📅 2016	👥 Khadijah Al Safwan, Fatimah AlShaer, Lolah Hakami, Khawlah Aseeri, Masoumah AlJishi, and Dilek Dustegor	📍
	📄 Design and Implementation of a Residential Energy Monitoring System Prototype Tailored to Meet Local Needs	
	📄 International Journal of Computing and Digital Systems (IJCDS)	
📅 2015	👥 Khadijah Al Safwan, Fatimah AlShaer, Lolah Hakami, Khawlah Aseeri, Masoumah AlJishi, and Dilek Dustegor	📍 Zallaq, Bahrain, Bahrain
	📄 iTrack: A Residential Energy Monitoring System Tailored to Meet Local Needs	
	📄 Fifth International Conference on e-Learning: Cognitively Informed Technology (econf)	

WORK EXPERIENCE

📅 2019 - Now	Graduate Teaching Assistant	🏢 Virginia Tech	📍 Blacksburg, VA, USA
📅 2016 - Now	Graduate Research Assistant	🏢 Virginia Tech	📍 Blacksburg, VA, USA
📅 2014 - 2015	Researcher	🏢 University of Dammam	📍 Dammam, Eastern, KSA
📅 Summer 2014	COOP Trainee	🏢 Wipro Arabia Limited	📍 Al Khobar, Eastern, KSA
📅 Oct - Dec 2013	Administrative-Work Assistant	🏢 University of Dammam	📍 Dammam, Eastern, KSA
📅 Summer 2013	Summer Trainee	🏢 Saudi Aramco	📍 Dhahran, Eastern, KSA

AWARDS

📅 2019	Travel to Tapia Conference Award	🏢 Virginia Tech	📍 Blacksburg, VA, USA
📅 2019	ACM SIGSOFT Travel Support to ESEC/FSE 2019 Conferences	🏢 ACM SIGSOFT	📍
📅 2016 - 2018	Graduate Studies Scholarship	🏢 Saudi Arabian Cultural Mission (SACM)	📍 Washington, DC, USA
📅 2012, 2013, 2014, 2015	Annual Excellence Award	🏢 University of Dammam	📍 Dammam, Eastern, KSA

SKILLS

Spoken Languages: Arabic English

Computer Skills: **Programming Languages** CSS HTML5 Java SQL JavaScript PHP JQuery Python NodeJs Prolog ABAP ASP.NET C++ C Lisp Scheme

Cloud Computing Apache Amazon Web Service Docker Nginx Raspberry Pi VNC XAMPP CPanel Passenger

Data Science MySQL Apache Solr MongoDB



































Operating Systems Mac OS Ubuntu Linux Windows



























Apps and Tools Lucidchart Tableau Processing D3 SPSS MatLab Circuit Maker Microsoft SQL Server Axure Enterprise Architect Balsamiq Wireframes Adobe Dreamweaver National Instruments Packet Tracer R Mathematica

Office and Writing Google G Suite LaTeX Microsoft Office Qualtrics





































Soft Skills: Technical Writing Organization Leadership Verbal Communication

PROJECTS

-  2018  Khadijah Al Safwan
 **United States Flights Delays**
 SPSS
-  2018  Edward Powell and Khadijah Al Safwan
 **Big Blue Marble**
 AWS Balsamiq Wireframes CSS D3 HTML JQuery JavaScript MySQL PHP SQL
-  2017  Haitao Wang, Han-Hsien Chen, Khadijah Al Safwan, Stefan Nagy, and Tianyi Li
 **GLC Reserve Yourself**
 Balsamiq Wireframes Prototype
-  2017  Frank Claytor, Khadijah Al Safwan, and Saurabh Chakravarty
 **Data Analysis Challenge**
 D3 JavaScript Tableau
-  2017  Andrej Galad and Khadijah Al Safwan
 **Automatic Recommendation of Developers to Fix a Bug**
 Java Python scikit-learn
-  2017  Khadijah Al Safwan
 **Exploratory Study of Software Changes Rationale**
 Literature Search
-  2016  Khadijah Al Safwan
 **Programming Language Compiler**
 Prolog
-  2014  Khadijah Al Safwan
 **iTrack Energy Monitoring System**
 CSS HTML JQuery JavaScript MySQL PHP Raspberry Pi SQL
-  2014  Fatimah Al-Shaer and Khadijah Al Safwan

-  **Your Next Trip Terminus**
 Prolog
-  2014
 -  Fatimah Jassim Al-Shaer, Khadijah Al Safwan, Khawla Aseeri, Lolah Hakami, and Masoumah AlJishi
 -  **Bloom Bouquet: Online Flowers Store**
 -  Java EE MySQL
-  2014
 -  Ebtihal Al Khalifah, Fatimah Jassim Al-Shaer, Khadijah Al Safwan, Khawla Aseeri, and Lolah Hakami
 -  **Reading Club System (Bookworm)**
 -  Apache CSS HTML JavaScript MySQL PHP
-  2013
 -  Doaa Alsadah, Fatimah Jassim Al-Shaer, Khadijah Al Safwan, Khawla Aseeri, and Lolah Hakami
 -  **Books for Sale**
 -  Axure Balsamiq Wireframes
-  2012
 -  Fatimah Al Abood, Khadijah Al Safwan, and Sakina Al Abbad
 -  **Electronic Dice Project**
 -  Building Electrical Circuit
-  2012
 -  Fatimah Al Abood, Fatimah Al Naji, Fatimah Al-Shaer, Khadijah Al Safwan, and Sakina Al Abbad
 -  **File System Explorer**
 -  JAVA
-  2012
 -  Fatimah Al Abood, Fatimah Al Naji, Fatimah Jassim Al-Shaer, Khadijah Al Safwan, and Sakina Al Abbad
 -  **Restaurant management system**
 -  JAVA

RECENT ACTIVITIES AND SERVICES

 Spring 2021	Instructor of Record	 Virginia Tech	 Blacksburg, VA, USA
 2021	Shadow PC Member	 MSR 2021	 Virtual venue
 Spring 2019 & 2020	Recruitment Weekend Volunteer	 Virginia Tech	 Blacksburg, VA, USA
 Spring 2020	5-Minutes Madness Presenter	 Virginia Tech	 Blacksburg, VA, USA
 2019 - Now	Research Lab Representative	 Virginia Tech	 Blacksburg, VA, USA
 Fall 2019	Lightning Talk Presenter	 Virginia Tech	 Blacksburg, VA, USA
 2016 & 2019	CS Career Fair Attendee	 Virginia Tech	 Blacksburg, VA, USA
 Sep 2019	Tapia Conference Attendee	 Tapia	 San Diego, CA, USA
 Aug 2019	ESEC/FSE Conference Attendee	 ESEC/FSE	 Tallinn, Harju, Estonia
 Summer 2019	Research Mentor	 Virginia Tech	 Blacksburg, VA, USA
 2018 - 2019	VT PEERS Volunteer	 VT PEERS	 Blacksburg, VA, USA
 Summer 2017	Research Mentor	 Virginia Tech	 Blacksburg, VA, USA

HOBBIES

 Photography

 Travelling

 Outdoor Exploration

REFERENCES

Available upon request.