# Khadijah Al Safwan, Ph.D.

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### **EDUCATION**

Ph.D. in Computer Science |GPA: 3.93/4Virginia Tech | 2018 - 2023M.S. in Computer Science |GPA: 3.90/4Virginia Tech | 2016 - 2018B.S. in Computer Science |GPA: 4.71/5University of Dammam | 2011 - 2015

### **III** WORK EXPERIENCE

Instructor of Record

Graduate Teaching Assistant

Virginia Tech | 2021, 2022, 2023

Virginia Tech | 2019 - 2023

Virginia Tech | 2019 - 2023

Virginia Tech | Fall 2018 and Summer 2021

Researcher

University of Dammam | 2014 - 2015

COOP Trainee

Wipro Arabia Limited | Summer 2014

Administrative-Work Assistant

University of Dammam | Oct - Dec 2013

Summer Trainee

Saudi Aramco | Summer 2013

### PUBLICATIONS

Developers' Need for the Rationale of Code Commits: An In-breadth and In-depth Study

Decomposing the Rationale of Code Commits: The Software Developers' Perspective

Design and Implementation of a Residential Energy Monitoring System Prototype

iTrack: A Residential Energy Monitoring System Tailored to Meet Local Needs

JSS | 2022

ESEC/FSE | 2019

IJCDS | 2016

ECOnf | 2015

## **□** SKILLS

### **Programming Languages**

| EXPERT LEVEL | CSS HTML Java SQL | PROFICIENT LEVEL | PHP JavaScript JQuery Python | COMPETENT LEVEL | NodeJs Prolog | ABAP ASP.NET C++ C Lisp Scheme

### **Data Management and Analysis**

### **Server Management**

| OPERATING SYSTEMS/SERVICES | Mac OS | Ubuntu Linux | Amazon Web Service | Windows | Raspberry Pi |
| SERVERS | Apache | Nginx | VNC | Passenger |
| Access and control tools | Secure Shell (SSH) | Docker | CPanel

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### Visualization and Graphic Design

D3 Plotly Processing Tableau

| Graphic Design, Diagramming, and Illustration | Lucidchart | Adobe Lightroom | Adobe Illustrator

| SIMULATION | Circuit Maker | MatLab | National Instruments | Packet Tracer

| UI DESIGN | Adobe Dreamweaver | Axure | Balsamiq Wireframes

Office and Writing Google Workspace | LaTeX | Microsoft Office | Qualtrics

Spoken Languages Arabic English

## **CONTINUE** RECENT PROJECTS

GitHub Pull Requests Prediction Tool

Identifying Racial Microaggressions in Social Media

An Empirical Study of GitHub Pull Requests

Continuous Integration (CI) Human Study

An Empirical Study of Rationale Discussions

Developers' Need for Rationale 2018 - 2022

## **Y**SELECTED AWARDS

### Recognitions

| GRADUATE TEACHING ASSISTANT OF THE YEAR Virginia Tech | 2020 Academic Year | ANNUAL EXCELLENCE AWARD University of Dammam | 2012, 2013, 2014, 2015

### Scholarships/Assistantships

| GRADUATE STUDIES SCHOLARSHIP | Saudi Arabian Cultural Mission (SACM) | 2016 - 2018

## RECENT ACTIVITIES & SERVICES

### Reviewer

TRANSACTIONS ON SOFTWARE ENGINEERING (TSE) JOURNAL TSE 2023 | 2023

| MINING SOFTWARE REPOSITORIES (MSR) JUNIOR PROGRAM COMMITTEE (PC) MSR 2023 | 2023

| International Workshop on Realizing Artificial Intelligence Synergies in Software Engineering (RAISE) Program Committee (PC) RAISE 2021 | 2021

| MINING SOFTWARE REPOSITORIES (MSR) SHADOW PROGRAM COMMITTEE (PC) | MSR 2021 | 2021

### Member

| CENTER FOR INTEGRATION OF RESEARCH, TEACHING, AND LEARNING ADVISORY BOARD | Virginia Tech | 2023

| CS Department Teaching Apprenticeship Program Virginia Tech | 2023

| GRADUATE HONOR SYSTEM (GHS) CHAIR SELECTION COMMITTEE Virginia Tech GHS | 2022

Research Mentor Virginia Tech | Summer 2021, 2019, 2017

#### Volunteer

| RESEARCH LAB REPRESENTATIVE Virginia Tech | 2019 - 2023

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