

# Arwa Alamoudi

Riyadh, Saudi Arabia  
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**Summary** I always eager to learn, improve, experience new things, and ask a lot!

**Personal Information**

- Marital status: Married.
- Nationality: Saudi.
- Date of Birth: 3/1/1990.
- Place of Birth: Jeddah.

**Experience** Teaching Assistant June 2012 – present  
Teaching Assistant at King Saud University in Software Engineering Department.

**Education** General Assembly, Part Time Data Science Course Mar. 2020 – May 2020  
10 -Week Data Science program to help create robust predictive models with statistics and Python programming.

University College London, London, United Kingdom 2014 – 2015  
MSc in Software Systems Engineering.  
Thesis: "An Empirical Study of the Human Process of Transplantation."  
Supervisor: Dr. Earl Barr.  
Grade: Distinction.

University College London, Diploma in English for Academic Purposes Jan. 2014 – June 2014  
An intensive two-term (20 week) English language, academic and research skills course. It is a full-time course specifically designed to provide international students with a unique insight into succeeding academically at graduate level at a top UK university.  
Grade: 80%

King Saud University, Riyadh, Saudi Arabia 2008 – 2012  
BSc in Information Technology.  
Project: "SADA."  
Supervisor: Dr. Areej Al-Wabil.  
Grade: Excellent.

**Research and Projects** Predicting Cyber-Attacks in IoT Environment April 2020 – May 2020  
Building a model that acts as a secure infrastructure for IoT systems through predicting cyber-attacks in network transmissions. This project went-through different stages: data collection, EDA, data preprocessing, data cleaning and feature engineering, resampling, building the model, and evaluating it.  
Language used: Python

	<b>An Empirical Study of the Human Process of Transplantation</b> This is a master thesis related to Autotransplantation research area. The goal of this research is to try to better understand how code transplantation events occur in nature through mining repositories in version control systems, and translate them into words that can help this research area in terms of existing and future tools. Language used: Shell Script using Ruby.	Jan. 2015 – Sep. 2015
	<b>Microsoft-UCL collaboration's UK Future Care Project</b> UK Future Care is a cloud-based project that aims to help and improve the lives of elderly people by using IoT devices to enable self-care, and provide their caretakers with useful analytics and predictions. The project was developed mostly in C# by 45 Master's students split up into 5 teams in collaboration with Microsoft. My role: Developer and Tester in Core Development team. Language used: C#.	Oct. 2014 – Feb. 2015
	<b>SADA</b> This is a bachelor project, which involves the design and development of an auditory discrimination and processing rehabilitation system. This system is aimed at children with hearing-impairments and is intended for use as part of speech-therapy programs for children with cochlear implants and other impairments in Saudi Arabia. Language used: Visual Basic.	2010 – 2011
	<b>Rawdat Al Quran Website</b> This project was part of Web Applications course during bachelor degree. Rawdat Al Quran website was developed based on a request from external party. Language used: Ruby and CSS.	June 2010
<b>Hackathons</b>	<b>Hackmaker #BuildwithAI</b> Participating in Natural Language Processing track with a project titled Emotion Detection Model on Twitter about Covid-19 pandemic Language used: Python	July 24 <sup>th</sup> – July 27 <sup>th</sup>
<b>Projects Supervision</b>	<b>Multi-User Game-based eLearning App Using AR for Kindergarten Children</b> The main goal of the project is to build an Arabic multi-user educational game application to help kindergartners develop specific key skills; motor, social and knowledge skills, in an innovative and effective way using Augmented Reality (AR) technology and play-based learning.	2020 - present
	<b>Augmented Reality Game-Based Learning Application (Hak)</b> A game-based mobile application that is designed with the help of Augmented Reality technology and is related specifically to primary school curriculum for Science in Saudi Arabia which will enhance the students' motivation towards learning by allowing them to experience interactively simulated scenarios related to different lessons in Science.	2019 - 2020

**GymsGuider** 2018 – 2019  
Gyms review website that provides people looking for gyms the wisdom of the crowds through visualizing customers' opinions and reviews to help them decide what is the best gym available and where to go.

**Truck Station** 2017 – 2018  
A mobile application that closes the distance and facilitates the communication between food truck owners and customers.

**Publications** Usability Engineering of Games: A Comparative Analysis of Measuring Excitement Using Sensors, Direct Observations and Self-Reported Data.  
Arwa Alamoudi, Noura Alomar, Rawan Alabdulrahman, Sarah Alkoblan, and Wea'am Alrashed.  
In the Exhibition associated with the 6th research day in King Saud University, Riyadh, Saudi Arabia, December 2014.

Interactive Serious Gaming for Children with Auditory Processing Difficulties in the Arabic Language.  
Arwa Alamoudi, Modhi Almozainy, Rawan Alabdulrahman, Sara Alkoblan, Sarah Drine, and Areej Al-Wabil.  
In the proceedings of the 15th Human-Computer International HCI2013, USA. Published by Springer CCIS.

An Exploratory Study of Arabic Language Support in Software Project Management Tools.  
Arwa Alamoudi, Haila AlMazroua, Hebah Almoaiqel, Noura Alomar, and Sarah Alkoblan. Published in International Journal of Computer Science IJCSI, Volume 10, Issue 4, July 2013.

The Use of Personas in the Design of an Arabic Auditory Training System for Children.  
Areej Al-Wabil, Sara Drine, Sara Alkoblan, Arwa Alamoudi, Rawan Alabdulrahman, and Modhi Almozainy.  
Published and presented in the 13th International Conference on Computers Helping People with Special Needs (ICCHP 2012) in Linz, Austria, July 2012.

Sada: Auditory Discrimination Therapy Program.  
Sara Drine, Sara Alkoblan, Arwa Alamoudi, Rawan Alabdulrahman, and Modhi Almozainy.  
Participated in the 4th Undergraduate Research Conference for Applied Computing (URC 2012) in Dubai, April 2012.

Sada: Auditory Discrimination Therapy Program.  
Sarah Drine, Sara Alkoblan, Arwa Alamoudi, Modhi Almozaini, Rawan Al-Abdulrahman.  
Participated and won 5th place in Health Sciences Track of KSU's Scientific Student Symposium, KSU, Riyadh, January 2012.

**Academic Services** Software Testing Seminar for Graduation Students Oct 2018  
A seminar about how to test your graduation project for level 8 students.

Getting Started with Git/Github June 2017

A workshop about Git and Github for level 4, 5, and 6 students. It provides a basic introduction about version control systems, important terminologies and concepts, and hands on experience.

**Technical Program Committee Member** March 2016  
Zayed University's Annual Conference on Undergraduate Research on Applied Computing, Dubai, United Arab Emirates; Committee in URC2016.

## Administrative work

**Developing faculty members schedules** Sep. 2018 - present  
Creating schedules of around 20 faculty members each semester based on their Wishlist and students' schedules, this includes dealing with conflict desires, conflict schedules, and fluctuations in faculty members status.

**Academic Advisor** Sep. 2017 - present  
Monitoring and guiding the status of 30 students through their college time.

**Partnership Activation Committee member** Jan. 2016 - present  
Establishing connections with different companies to help them in providing services for both students and faculty members.

**Software and Knowledge Engineering Research Group Coordinator** Jan. 2016 - Fall 2018  
Coordinating weekly seminars about different topics in software engineering presented by different experts in the field from inside and outside the university.

**Software Construction Clinic – Female Coordinator** Sep. 2016 – Sep. 2018  
Coordinating different workshops related to different topics in the Software Engineering field between male and female sides.

## Certificates

- A certificate for the Attendance of a workshop titled "I Can! Apply my Computing Background in Bioinformatics" which was held by Bio-Informatics Research Group at King Saud University. 2013
- A Certificate for the Participation in the Fourth Annual Undergraduate Research Conference on Applied Computing (URC 2012). 2012
- A certificate of appreciation in the contribution in the organizing committee for the Dry Run for URC 2012. 2012
- A Certificate for the Attendance of the Microsoft Approved Course. "6425B: Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services". 2011
- A Certificate of Attendance in Microsoft Gulf Developer Conference GDC'09. Dec 13th – 15th (2009)

## Awards

**Hak** Oct. 2020  
Won the 3rd place in Takaful Charity Competition for the best project

**Hak** Aug. 2020  
Won the 3rd places in Harakat Competition - Monshaat

SADA Jan 2012  
SADA has Won 5th place in Health Sciences Track of KSU's Scientific Student Symposium Research in which more than 400 submissions were evaluated.

Rawdat Al Quran Website June 2010  
It is a Community Service Project, which was sponsored by Al-Elm Company. It had achieved the second rank.

**Languages** Arabic - Native  
English - Full professional proficiency

**Skills** Computer Skills  
Java, Python, JavaScript, PHP, C#, Ruby, Shell Scripting, Regular Expression. HTML, CSS, assembly, Visual Basic, SQL, Unix, LaTeX, and Microsoft office.

Soft Skills  
Good communication, Teamwork, strong time management, leadership, problem solving, decision making, and excellent Presentation.

**Interests and Activities** Data Science,  
Software Testing,  
Software Engineering, and  
Assistive Technology.

**GitHub Account** <https://github.com/ArwaMA>