HODA AHMED GALAL ELSAYED

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Profile

A self-motivated software engineer who strives for quality and works to the highest standards with an eye kept on details. Passionate person about academic teaching and technology innovations with considerable hands-on experience in addition to leadership capabilities and time management skills. I confidently seek opportunities that will develop new skills while strengthening those already possessed.

Education

- Masters' Degree in Software Engineering – *36 credit hrs*   Prince Sultan University   2017
  - Accumulative GPA: (4.0/4.0)
  - Thesis Title: HeartCare+: A smart healthcare model for early detection of coronary heart diseases
- Bachelor of Science Degree in Software Engineering *(1ˢᵗ honor) – 143 credit hrs*   Alfaisal University   2015
  - Accumulative GPA: (3.94/4.0)
  - Internship: 2 months training   Oracle & SMCI   2014
- Additional Courses:
  - Project Management Professional – *35 contact hrs*   Alfaisal University   2017
  - Big Data (Hadoop) Developer Track – *30 credit hrs*   Vinsys   2017
  - Data Scientist – *21 credit hrs*   IBM Skills Academy   2017
  - Cloud IoT – *21 credit hrs*   IBM Skills Academy   2020
- International Exams:
  - IoT Cloud Developer 2020 Mastery exam (75% pass)   IBM Skills Academy   2020
  - Data Scientist Mastery Award for Educators Exam (83% pass)   IBM Skills Academy   2018
  - General IDP IELTS Australian exam certified (score: 6.5)   Al-Farabi Colleges   2016
  - American diploma: SAT (I&II) certified   AMIDEAST   2010

Professional Skills

- Multilingual (spoken and written)
  - Native: Arabic   ●●●●●
  - Fluent English   ●●●●●
  - Preliminary French   ●●○○○
  - Preliminary Turkish   ●●●○○

- Academic Teaching
- Conducting Researches
- Public Speaking
- Time Management
- Management & Leadership

- Teamwork
- Decision making
- Communication
- Self-Motivation
- Creativity

Programming Languages

- Java / JS   ●●●●○
- HTML   ●●●●○
- SQL   ●●●●○
- XML   ●●●●○
- C#   ●●●○○
- R & Uscript   ●●○○○

Experience

Position	Place	Duration / Semester	Year
*Course Instructor (**current**) for:*	Alfaisal university		
✓ Programming for Engineers (SE100)		Spring / Fall	2019
✓ Database Management System (SE312)		Falls	2018 & 2020
✓ Object Oriented Programming I (SE120)		Summer	2020
✓ Object Oriented Programming II (SE220)		Spring	2020
Assistant Instructor for:	Alfaisal University		
✓ Embedded Systems (SE327)		Spring	2019
✓ Introduction to Engineering Innovation (PIE112)		Springs	2018 & 2019
✓ Special topics in SE - IBM Data Science (SE440)		Springs	2018 & 2019
✓ Capstone Project (SE490) *~ for 4 projects*		Fall / Spring	2019 & 2020
Lab Teaching Assistant for:	Alfaisal University		
✓ Mobile App Development Lab (SE416 L)		Falls	2019 & 2020
✓ Web Application Development Lab (SE324 L)		Summer / Fall	2019
✓ Database Management System Lab (SE312 L)		Falls	2018 & 2020
✓ Software Requirements & Design (SE225 L)		Spring	2020
✓ Introduction to Software Engineering Lab (SE201 L)		Summer	2018
✓ Data Structures & Algorithms Lab (SE214 L)		Summer	2018
✓ Object Oriented Programming I L (SE120 L)		Summer	2020
✓ Object Oriented Programming II L (SE220 L)		Spring	2020
Mobile App Development Track Trainer	Summer Camp @AU (Mawhiba)	Summer (2 months)	2017 & 2020

• *MobiSiTech Track Trainer (Mobile, Web & Gaming)*	Mid-Year Program @AU	Spring (2 weeks)	2021
• *Research scholar*	Prince Sultan university	2 years	2015-2017
• *UE4 game workshops organizer and Trainer*	Alfaisal university	1 year	2016
• *Cofounder and graphics designer of ClickIT club*	Alfaisal university	1 years	2015
• *System analyst and documenter Trainee*	SMCI	1 month	2014
• *Database 12c installation tester, ERP and CRM Trainee*	Oracle	1 month	2014
• *Cofounder, graphics and web designer of Math club*	Alfaisal university	2 years	2013
• *Teaching Assistant of algebra I course*	Alfaisal university	2 months	2012

Honor list

• Data scientist mastery award for educators & explorer award for students	IBM Skills Academy	2018
• Best poster and startup project during ISHIC 2017 conference (*1st and 2nd prize*)	Princess Nourah university	2017
• Best master thesis proposal and best research awards	Prince Sultan university	2017
• Dean's honor list – *bachelor level*	Alfaisal university	2011-2015
• Best capstone project Award (*1st prize*) in SE during first Eng. design expo	Alfaisal university & ABB	2015

Academic Record (2011-2019)

	Journal Papers	Book chapters	Conference Papers	Conference Abstracts	Published Datasets	Posters	Projects	Awards	Grants	Published Apps	Invited Talks	Citations	Badges	Volunteer Work
Total	4	1	1	3	1	8	9	7	1	1	9	13	6	13

Journal papers

[1] **Hoda Ahmed Galal Elsayed**, Soumaya Chaffar, Samir Brahim Belhaouari, Hafsa Raissouli. (2020) A Two-Level Deep Learning Approach for Emotion Recognition in Arabic News Headlines. International Journal of computers and applications. (***partially accepted***)

[2] **Hoda Ahmed Galal Elsayed**, Mariam Ahmed Galal, and Liyakathunisa Syed. (**2017**) "HeartCare+: A Smart Heart Care Mobile Application for Framingham-Based Early Risk Prediction of Hard Coronary Heart Diseases in Middle East," Mobile Information Systems (Hindawi), vol. 2017, Article ID 9369532, 11 pages. doi:10.1155/2017/9369532

[3] **Elsayed H.**, Syed L. (**2016**). Requirements Elicitation Framework for Quality Enhancement of Critical Systems: A Case Study. *International Journal of Software Engineering & Applications (IJSEA)*, Vol. 7(1): pp. 13-30.

[4] **Elsayed H.**, Nafel, A., AlNamlah H. (**2015**). Role of Agile Methodology in Project Management and Leading Management Tools. *Journal of Business and Technovation (JoBT)* Vol. 3(3): pp. 109-113.

Book Chapters

[5] *Syed, Liyakathunisa & Jabeen, Saima & Manimala, S & A. **Elsayed, Hoda Ahmed**. (**2019**). Data Science Algorithms and Techniques for Smart Healthcare Using IoT and Big Data Analytics: Towards Smarter Algorithms. Studies in Fuzziness and Soft Computing (Springer). 10.1007/978-3-030-03131-2_11.*

Conference papers

[6] **Elsayed, H.**, & Syed, L. (**2017**). An Automatic Early Risk Classification of Hard Coronary Heart Diseases using Framingham Scoring Model. In Proceedings of the Second International Conference on Internet of Things, Data and Cloud Computing (ICC 2017). ACM. *Cambridge University*. DOI: 10.1145/3018896.3036384

Conference abstracts

[7] **Hoda Ahmed Galal Elsayed** and Liyakathunisa. (**2018**) Prediction of Coronary Heart Diseases Death using Big Data Analysis Techniques. In Learning and Technology Conference (L&T'18). IEEE. Effat University (Accepted)

[8] Karim, N., **Elsayed, H.**, Alshalhoub F., AlOthaim N. & Chaffar S. (**2017**). QuitMe: Android App for Tracking Smoking Habits. In 2nd International Saudi Health Informatics Conference proceedings (ISHIC'17)

[9] **Elsayed, H.** & Syed, L. (**2017**). Coronary Heart Diseases Prevalence Knowledge Among Saudi Arabia University Students Sample: A Survey Study. In 2nd International Saudi Health Informatics Conference proceedings (ISHIC'17)

Datasets

[10] Soumaya Chaffar, Hoda Elsayed, Samir Belhaouari, Hafsa Raissouli. (2020). Arabic News Headlines. IEEE Dataport. http://dx.doi.org/10.21227/7e79-nt12

Posters

- Big Data Analysis for Early Prediction of Coronary Death using Mahout - 2017
  - *Event:* Annual Computing and Information Technology Research Forum (ACIT'17)

- An Efficient Smart Healthcare Model for Early Detection of Hard Coronary Heart Diseases in the Rural Areas of Middle East - 2017
  - *Event:* Annual Computing and Information Technology Research Forum (ACIT'17)

- QuitMe: Android App for Tracking Smoking Habits Using Persuasive Design Principles - 2017

- Coronary Heart Diseases Knowledge Assessment Using Opinion Mining: A Study for Saudi Arabia - 2017
  - *Event:* 2nd International Saudi Health Informatics Conference proceedings (ISHIC17)

- Non-traditional Education Methods in Industrial Engineering - 2016
  - *Event:* ABB's 7th scientific research Day's poster competition at *Alfaisal university*

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- Requirements Elicitation Framework for Quality Enhancement of Critical Systems: A Case Study - 2016
  - o *Event:* MSE Graduate Students' 6th Annual Conference at *prince sultan university*
- Online Accreditation & Quality Assurance Platform – 2015/2016
  - o *Event:* ABB's 6th scientific research Day's poster competition at *Alfaisal university* &
  - o *Event:* Research & Translation Center's 3rd Research Forum at *prince sultan university*

Projects

Project name	language	IDE	Progress	year
• Heartcare+ mobile app	JavaScript, Html	Visual studio	100%	2017
• Dairy Products Factory Educational Game	UScript	Unreal engine 4	50%	2015-2017
• QuitMe android based mobile app	Java, Xml	Android studio	100% - *on play store*	2017
• Alfaisal University Accreditation website	C#, JavaScript, Html, CSS	Visual studio	100%	2015
• Nino Restaurant website	C#, JavaScript, Html, CSS	Visual studio	100%	2014
• Trigonometric and Logarithmic calculator	MIPS	MARS 4.4	100%	2013
• Math Club Website	Html, CSS	Artisteer 3	100%	2013
• Books Exchange website database	SQL	SQL Server Studio	100%	2013
• Calculator Simulator	Java	JCreator	100%	2012

Awards (2015 - 2019)

- Data scientist mastery award for educators 2017-2019
- Data scientist explorer award for students 2017-2019
- Best Research Award at the Annual Computing and Information Technology Research Forum (December / ACIT17)
- Best Startup project (2nd prize) at the 2nd International Saudi Health Informatics Conference proceedings (ISHIC17)
- Best Poster Award (1st prize) at 2nd International Saudi Health Informatics Conference proceedings (ISHIC17)
- Best Thesis Proposal Award at the Annual Computing and Information Technology Research Forum (March / ACIT17)
- Best Capstone Project Award at the First Engineering Design Expo and capstone competition (2015)

Grants

- Boeing Student Research Grant ($10K) Non-traditional Education Methods in Industrial Engineering research (2013-2017)

Invited Talks

Role	Event	Place	Year
Research Presenter	Annual Research Forum	Prince Sultan University	2017
• *Topic:* Big Data Analysis for Early Prediction of Coronary Death using Mahout			
Speaker	Alumni Talk	Alfaisal university	2017
• *Topic:* Software Engineering Choice and Life After Graduation | Success Alumni Story		Prince Sultan university	
Proposal Presenter	Master Proposal	Prince Sultan university	2017
• *Topic:* An Efficient Smart Healthcare Model for Early Detection of Hard Coronary Heart Diseases in the Rural Areas of Middle East			
Startup Project Presenter	2nd International Saudi Health Informatics Conference proceedings (ISHIC17)	Princess Nourah & KSU	2017
• *Topic:* QuitMe: Android App for Tracking Smoking Habits Using Persuasive Design Principles			
Research Paper Presenter	2nd International Conference on Internet of Things, Data and Cloud Computing proceedings (ICC'17) & 4th RTC Computing forum	Cambridge university, ACM & Prince sultan university	2017
• *Topic:* An Automatic Early Risk Classification of Hard Coronary Heart Diseases using Framingham Scoring Model			
Speaker			
• *Topic: Pedagogy of Care in Higher Education*		Alfaisal University, QAA	2020

Badges

- Google Developer Badge & Android Studio Developer Digital Badge 2020
- IoT Cloud Developer 2020 Mastery Award Digital Badge 2020
- IoT Cloud Developer 2020 Explorer Award Digital Badge 2020
- Data Scientist Mastery Award for Educators Digital Badge 2017-2019
- Data Scientist Explorer Award for Educators Digital Badge 2017-2019
- Oracle Trainee Badge 2017

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Volunteering Work

Role	Event	Place	Organizer(s)	Year
• Organizer	Engineering Major Event-3 rounds/6 speakers	Alfaisal university (Summer Camp)	Summer Enrichment Program	2020
• Participant	Arduino Workshop	Prince sultan university	HCI research group	12/2017
• Attendee	Cyber Security Webinar	Over web	Global Knowledge Center	10/2017
• Attendee	Women in Consulting & Networking	Four seasons hotel	Boston Consulting Group (BCG)	4/2016
• Volunteer	6th annual MSE graduates conference	Prince sultan university	CCIS	2016
• Organizer	Fuzzy logic seminar	Alfaisal university	ClickIT Club	3/2015
• Participant	Hour of code competition	Alfaisal university	ClickIT Club	2/2015
• Attendee	Android Development Workshop	Alfaisal university	Aramco & ClickIT Club	1/2015
• Attendee	RampUp Riyadh Event	Dar Al Uloom university	Microsoft	12/2014
• Attendee	Security & Core Technologies seminar	Alfaisal university	Oracle & ClickIT Club	12/2014
• SE Representative	Open house event	Alfaisal university	Alfaisal university	2014-2015
• Robot Programmer	RoboGames competition	Alfaisal university	Alfaisal university	2013
• Volunteer	Culture day event	Alfaisal university	Alfaisal university	2012-2014

List of Tools

- Netbeans
- Dr. Java
- Fritzing
- MS Office
- Axure

- IBM BigInsights
- Arduino
- Visual paradigm
- VirtualBox
- Node-Red

- Visual Studio
- MARS 4.4
- Edraw-Max
- JustInMind
- Draw.io

- Android Studio
- Weka 3.6
- Artisteer 3
- LEGO Mind Storms
- MIT App Inventor

- Xml Visualizer
- R-Studio
- Unreal Engine 4
- Balsamiq Mockups
- Oracle Live SQL

- SAP Crystal Reports
- SQL Management Studio
- Voki
- Cloudera (Hadoop)
- SqlDeveloper

* Certificates are available upon request