

HODA AHMED GALAL ELSAYED

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(+966) 55-290-2661

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
 - IoT Cloud Developer – 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 ●●●●○
- XML ●●●●○
- HTML ●●●●○
- C# ●●●●○
- SQL ●●●●○
- R & Usript ●●●●○

Experience

Position	Place	Duration / Semester	Year
• Course Instructor (current) for: <ul style="list-style-type: none">✓ Programming for Engineers (SE100)✓ Database Management System (SE312)✓ Object Oriented Programming I (SE120)✓ Object Oriented Programming II (SE220)	Alfaisal university	Spring / Fall Falls Summer Spring	2019, 2020 2018 & 2020 2020 2020
• Assistant Instructor for: <ul style="list-style-type: none">✓ Embedded Systems (SE327)✓ Introduction to Engineering Innovation (PIE112)✓ Special topics in SE - IBM Data Science (SE440)✓ Capstone Project (SE490) ~ for 4 projects	Alfaisal University	Spring Springs Springs Fall / Spring	2019 2018 & 2019 2018 & 2019 2019 & 2020
• Lab Teaching Assistant for: <ul style="list-style-type: none">✓ Mobile App Development Lab (SE416 L)✓ Web Application Development Lab (SE324 L)✓ Database Management System Lab (SE312 L)✓ Software Requirements & Design (SE225 L)✓ Introduction to Software Engineering Lab (SE201 L)✓ Data Structures & Algorithms Lab (SE214 L)✓ Object Oriented Programming I L (SE120 L)✓ Object Oriented Programming II L (SE220 L)	Alfaisal University	Falls Summer / Fall Falls Spring Summer Summer Summer Spring	2019 & 2020 2019 2018 & 2020 2020 2018 2018 2020 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

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• QA, Assessment & Accreditation Committee Member	Alfaisal University	Fall	2020
• 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 I2c 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

• Cloud IoT mastery award & explorer award	IBM Skills Academy	2020
• Second Place Winner in Arabnet Ideathon	Arabnet	2020
• Data scientist mastery award for educators & explorer award for students	IBM Skills Academy	2018
• Best poster and startup project during ISHIC 2017 conference (1 st and 2 nd 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 (1 st 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	11	1	1	9	13	7	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 – revision under processing*)
- [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)

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- Non-traditional Education Methods in Industrial Engineering - 2016
 - *Event:* ABB's 7th scientific research Day's poster competition at *Alfaisal university*
- Requirements Elicitation Framework for Quality Enhancement of Critical Systems: A Case Study - 2016
 - *Event:* MSE Graduate Students' 6th Annual Conference at *prince sultan university*
- Online Accreditation & Quality Assurance Platform – 2015/2016
 - *Event:* ABB's 6th scientific research Day's poster competition at *Alfaisal university* &
 - *Event:* Research & Translation Center's 3rd Research Forum at *prince sultan university*

Projects

Project name	language	IDE	Progress	year
• AGZA	Java	Android Studio	30%	2020
• 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% - <i>on play store</i>	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)

- Cloud IoT mastery award for educators 2020
- Cloud IoT explorer award for educators 2020
- Arabnet Ideathon's 2nd place Award Winner 2020
- Data scientist mastery award for educators 2017-2019
- 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
Speaker	Remote Teaching Series	Alfaisal University, QAA	2020
• <i>Topic:</i> Pedagogy of Care in Higher Education			
Research Presenter	Annual Research Forum	Prince Sultan University	2017
• <i>Topic:</i> Big Data Analysis for Early Prediction of Coronary Death using Mahout			
Speaker	Alumni Talk	Alfaisal university	2017
• <i>Topic:</i> Software Engineering Choice and Life After Graduation Success Alumni Story		Prince Sultan university	
Proposal Presenter	Master Proposal	Prince Sultan university	2017
• <i>Topic:</i> An Efficient Smart Healthcare Model for Early Detection of Hard Coronary Heart Diseases in the Rural Areas of Middle East			
Startup Project Presenter	2 nd International Saudi Health Informatics Conference proceedings (ISHIC17)	Princess Nourah & KSU	2017
• <i>Topic:</i> QuitMe: Android App for Tracking Smoking Habits Using Persuasive Design Principles			
Research Paper Presenter	2 nd International Conference on Internet of Things, Data and Cloud Computing proceedings (ICC'17) & 4 th RTC Computing forum	Cambridge university, ACM & Prince sultan university	2017
• <i>Topic:</i> An Automatic Early Risk Classification of Hard Coronary Heart Diseases using Framingham Scoring Model			

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Badges

- IEEE Effective Remote Instruction: Reimagining the Engineering Student Experience Virtual Event Digital Badge 2020
- 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

Check these profiles:

- <https://www.youracclaim.com/users/hoda-ahmed-galal-elsayed>
- <https://www.credential.net/77e093a9-9df5-47df-921f-025906b3a002>

Volunteering Work

Role	Event	Place	Organizer(s)	Year
• Organizer	Engineering Major Event-3 rounds/6 speakers	Alfaisal university (Summer Camp)	Summer Enrichment Program	2020
• Attendee	International Exhibition of Mobile Technology	Online	SIDMC	2020
• Attendee	3 Tips to Own the Classroom	Online	ZOOM	2020
• Attendee	Middle East & North Africa Info. Security	Online	MENA ISC	2020
• Attendee	Introduction to Robotics OS (ROS)	Prince sultan university	Dr. Anis Kouba	2020
• Attendee	Creative Expression Through AI	Online	PSU& Code for Girls	2020
• Attendee	Effective Remote Instructions	Online	IEEE (5-sessions series)	2020
• Attendee	Engineers' Methods & Innovation Techniques	Online	IEEE (4-sessions series)	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