

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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• <i>Research scholar</i>	Prince Sultan university	2 years	2015-2017
• <i>UE4 game workshops organizer and Trainer</i>	Alfaisal university	1 year	2016
• <i>Cofounder and graphics designer of ClickIT club</i>	Alfaisal university	1 years	2015
• <i>System analyst and documenter Trainee</i>	SMCI	1 month	2014
• <i>Database I2c installation tester, ERP and CRM Trainee</i>	Oracle	1 month	2014
• <i>Cofounder, graphics and web designer of Math club</i>	Alfaisal university	2 years	2013
• <i>Teaching Assistant of algebra I course</i>	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 (<i>1st and 2nd prize</i>)	Princess Nourah university	2017
• Best master thesis proposal and best research awards	Prince Sultan university	2017
• Dean's honor list – <i>bachelor level</i>	Alfaisal university	2011-2015
• Best capstone project Award (<i>1st prize</i>) 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 (ISHIC'17)
- Non-traditional Education Methods in Industrial Engineering - 2016

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- *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
- IBM BigInsights
- Visual Studio
- Android Studio
- Xml Visualizer
- SAP Crystal Reports
- Dr. Java
- Arduino
- MARS 4.4
- Weka 3.6
- R-Studio
- SQL Management Studio
- Fritzing
- Visual paradigm
- Edraw-Max
- Artisteer 3
- Unreal Engine 4
- Voki
- MS Office
- VirtualBox
- JustInMind
- LEGO Mind Storms
- Balsamiq Mockups
- Cloudera (Hadoop)
- Axure
- Node-Red
- Draw.io
- MIT App Inventor
- Oracle Live SQL
- SqlDeveloper

* Certificates are available upon request