DEEMA ABDULAZIZ

New York, NY 10027

(917)254-3706 | daa2182@columbia.edu | | https://github.com/deema-A

https://www.linkedin.com/in/deemaa2021/

EDUCATION

Columbia University

New York, NY

MSc. in Computer Science, Machine Learning Track, GPA:3.93/4

Dec 2022

Relevant Coursework: Analysis of Algorithms, Natural Language Processing, User Interface Design, Empirical Methods Data Science, Databases

King Saud University Rivadh, Saudi Arabia

BSc. in Information Technology

Jun 2015

Ranked First in KSU Class of 2015, First-Class Honor, GPA: 4.99/5

Dissertation "Mr. Saud: NAO Robot for Kindergarten" | Dean's List of Outstanding Students | Ranked First in AEC's Best Graduation Project Prize

WORK EXPERIENCE

Osrah Company

Dammam, Saudi Arabia

Sep 2019 - Sep 2021

Software Engineer

- Led the technical team in Osrah company (a startup company supports small businesses)
- Developed (Rabet) a central directory for small business providers and (Artizana.store) a marketplace for handmade products
- Signed a contract with social development ministry to cover first year subscriptions of +2500 stores on Artizana.store

College of Computer and Information Sciences, IMSIU

Teaching Assistant

Riyadh, Saudi Arabia Feb 2019 - Sep 2021

- Taught undergraduate courses as: Operating systems, Computer networks, and Wireless networks +30 students/class
- Assisted in supervising 10 undergraduate dissertations (machine learning, computer vision and security related projects)
- Awarded IMSIU Faculty Scholarship

General Organization for Social Insurance

Riyadh, Saudi Arabia Apr 2017 - Feb 2019

Business Intelligence (BI)/ ETL Developer

Engineered GOSI database that covers around 8 million employees' data

- Implemented Data warehousing and modeling, ETL development, BI dashboard building, BI Testing, Data Quality, and Data Visualization on GOSI data
- Delivered dashboards and required statistics for around 1000 external requests on private sector employees' data
- Developed ETL procedures for data extraction and transformation

General Organization for Social Insurance

Riyadh, Saudi Arabia

Java Developer

Jul 2016 - Apr 2017

Developed GOSI's website, backend (Java EE) and frontend (Java server pages JSPs)

Elm Company

Riyadh, Saudi Arabia

Software Test Engineer

Sep 2015 - Jun 2016

- Conducted Web services and API testing
- Conducted Functional testing and UI testing on two countrywide systems used by more than 100 thousand users
- Analyzed business requirements and prepared test cases, automation tests and tests scenarios
- Reported and verified bugs, certified releases, and deployed new builds

King Faisal Specialist Hospital & Research Centre

Research Assistant Intern

Riyadh, Saudi Arabia

Aug 2015 - Sep 2015

TECHNICAL SKILLS

Languages Python, PL/SQL, Java, PHP, JavaScript, CSS, R, C#

Visualization OBIEE, Oracle BI Publisher, Oracle Data Integrator, Tableau, Power BI, Alteryx

Tools Git, SoupUI, Toad, Figma, Balsamiq

MAIN PROJECTS

Neural Interactive System with Qingyang Wu NLP Lab @Columbia

NLP. Databases

Imbalance Data, GANs Deep Learning (CNN), Image Processing

Detecting Facial Manipulation in Deepfake Videos Using Neural Networks

Data Augmentation using GANs for COVID19 classification in chest X-rays images

NLP, Swarm Intelligence

Word Sense Disambiguation Using Swarm Intelligence Techniques

Robotics

• A Survey on Recent Approaches

Mr. Saud: NAO Robot for Kindergarten

Programmed NAO robot to support kindergarten edutainment through providing activities and games. And enabling teachers to review students' progress through an android mobile application and a web interface

PUBLICATIONS

The experience of developing Mr. Saud educational system using NAO humanoid robot, Muscat

ICTA 2017

Using NAO Humanoid Robot in Kindergarten: A Proposed System, Hualien

ICALT 2015