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Saleh Z. Alatwah
Geologist / Petrophysicist / Data Scientist

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A Reservoir Geologist/Petrophyisist/Data Scientist with passion towards machine learning and deep learning data driven approaches in integrated static-dynamic reservoir characterization and geological modeling.

Demonstrable robust cross-discipline expertise, working integrated knowledge across all subsurface and engineering upstream disciplines , through the exploration and development life-cycle.

EDUCATION

Master of Science in Geo-Energy Engineering, *Delft University of Technology (TU Delft)*   Sep 2021 - Jul 2023 (EXPECTED)
Bachelor of Science in Geology, *University of Tulsa*   Sep 2009 - May 2013

TECHNICAL EXPERIENCE

Geosteering Geologist   **July 2013 — June 2014**
Saudi Aramco   *Eastern Province, Saudi Arabia*

- Geo-steered horizontal wells in the targeted reservoir to maximize hydrocarbon production
- Minimize productivity loss.
- Prevent environmental hazards.

Exploration Geologist   **June 2014 — July 2016**
Saudi Aramco   *Eastern Province, Saudi Arabia*

- 1D, 2D, and 3D Reservoir characterization and modeling.
- Regional mapping to build geological models for resource/risk assessment.
- Provided prospect generation subsurface evaluations.
- Seismic Imaging including 3D & 2D seismic processing.

Reservoir Petrophysicist/ Data Scientist   **June 2014 — Present**
Saudi Aramco   *Eastern Province, Saudi Arabia*

- Modeling petrophysical properties in a field scale and regional scale.
- Integrating static and dynamic subsurface data to provide decision ready models for stakeholders..

Data Scientist   **January 2018 — Present**
Freelance   *Eastern Province, Saudi Arabia*

- Building Machine Learning and Deep Learning models to predict insights of clients data and create value.

TECHNICAL SKILLS

Languages	Python, Git, LaTeX, MarkDown, HTML, Bash
Machine Learning	Pandas, NumPy, PyTorch, TensorFlow, scikit-learn, OpenCV, R
Geological Modeling	Petrel, Techlog, RMS, Opendtect, Geolog
Other	Linux, Distributed Systems, MySQL, Adobe Photoshop, Adobe Ilustrator

ACHIEVEMENTS, AWARDS AND PUBLICATIONS

IBM Certified Professional Data Scientist   **July 2020**

- click here for credential

Patent filed : "System and method for detection of carbonate core features from core images"   **March 2020**
- patent filed and accepted at the US patent office. click here for google patents link

Barrel Awards Winner   **July 2015**
- Won the barrel awards competition for the best hydrocarbon prospect in Saudi Aramco

Patent filed : "System and method for detection of carbonate core features from core images"   **March 2020**
- patent filed and accepted at the US patent office. click here for google patents link

A.N. Murray Award in Geosciences   **May 2012**
- Outstanding academic achievement as an undergraduate

EAGE GeoHack   **Dec 2019**
- Won EAGE hackathon held in Manama, Bahrain.

SPWLA machine learning competition   **July 2021**
- Scored 4th Place.