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# Saleh Z. Alatwah

## Geologist / Petrophysicist / Data Scientist

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A Reservoir Geologist/Petrophysicist/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

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

### TECHNICAL EXPERIENCE

<b>Geosteering Geologist</b> <i>Saudi Aramco</i>	<b>July 2013 — June 2014</b> <i>Eastern Province, Saudi Arabia</i>
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- Geo-steered horizontal wells in the targeted reservoir to maximize hydrocarbon production
- Minimize productivity loss.
- Prevent environmental hazards.

<b>Exploration Geologist</b> <i>Saudi Aramco</i>	<b>June 2014 — July 2016</b> <i>Eastern Province, Saudi Arabia</i>
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- 1D, 2D, and 3D Reservoir characterization and modeling.
- Regional mapping to build a geological models for resource/risk assessment.
- Provided prospect generation subsurface evaluations.
- Seismic Imaging including 3D & 2D seismic processing.

<b>Reservoir Petrophysicist/ Data Scientist</b> <i>Saudi Aramco</i>	<b>June 2014 — Present</b> <i>Eastern Province, Saudi Arabia</i>
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- Modeling petrophysical properties in a field scale and regional scale.
- Integrating static and dynamic subsurface data to provide decision ready models for stakeholders..

<b>Data Scientist</b> <i>Freelance</i>	<b>January 2018 — Present</b> <i>Eastern Province, Saudi Arabia</i>
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- Building Machine Learning and Deep Learning models to predict insights of clients data and create value.

### TECHNICAL SKILLS

<b>Languages</b>	Python, Git, $\text{\LaTeX}$ , Markdown, HTML, Bash
<b>Machine Learning</b>	Pandas, NumPy, PyTorch, TensorFlow, scikit-learn, OpenCV, R
<b>Geological Modeling</b>	Petrel, Techlog, RMS, Opendtect, Geolog
<b>Other</b>	Linux, Distributed Systems, MySQL, Adobe Photoshop, Adobe Illustrator

### ACHIEVEMENTS, AWARDS AND PUBLICATIONS

<b>IBM Certified Professional Data Scientist</b> • <a href="#">click here for credential</a>	<b>July 2020</b>
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<b>Patent filed : "System and method for detection of carbonate core features from core images"</b> • patent filed and accepted at the US patent office. <a href="#">click here for google patents link</a>	<b>March 2020</b>
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<b>Barrel Awards Winner</b> • Won the barrel awards competition for the best hydrocarbon prospect in Saudi Aramco	<b>July 2015</b>
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<b>Patent filed : "System and method for detection of carbonate core features from core images"</b> • patent filed and accepted at the US patent office. <a href="#">click here for google patents link</a>	<b>March 2020</b>
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<b>A.N. Murray Award in Geosciences</b> • Outstanding academic achievement as an undergraduate	<b>May 2012</b>
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<b>EAGE GeoHack</b> • Won EAGE hackathon held in Manama, Bahrain.	<b>Dec 2019</b>
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<b>SPWLA machine learning competition</b> • Scored 4th Place.	<b>July 2021</b>
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