Noah Vento

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WORK EXPERIENCE

WaterBridge

Analytics Engineer Feb. 2024 – Present

- Constructing Live Hydraulics solution to serve as foundation for future Operations forecasting and optimization.
- Used Samsara API to extract detailed vehicle route data and performed comprehensive analysis of route efficiency and driver performance to optimize logistics and reduce operational costs.
- Expedited QA/QC process for volumetric readings by constructing automated workflow to detect anomalous values, reducing cycle time by over 75%.
- Regular utilization of Python, SQL, Git, Docker, APIs, and Spotfire.

ExxonMobil

Geoscientist & Data Scientist Oct. 2020 – Feb. 2024

- Re-characterized subsurface architecture for ~7TCF gas reservoir in the Rovuma Basin, Mozambique, successfully passing subsurface peer review with Senior Technical Committee.
- Developed and programmed internal Python package for trend-fitting and anomaly detection with seismic data.
- Designed and implemented AI solutions in support of Uncon, Low Carbon Solutions, and Guyanese BUs, reducing interpretation time from weeks to days.
- Stewarded the use of ArcGIS StoryMaps for knowledge capture across the Upstream organization and created multiple web-based applications, ultimately, gaining over 5000+ internal pageviews.

Geoscience Intern May 2019 – Aug. 2019

- Evaluated the limitations and applications of stratigraphic forward modeling software to influence R&D decision to sponsor joint industry program with external vendor.

SKILLS

Python, Git, SQL, Docker, Linux, ArcGIS, JavaScript, HTML, CSS, React, Spotfire, Petrel, RokDoc, Geoteric, Paleoscan, Python, Artificial Intelligence, Microsoft Office, Adobe Suite

COURSES & WORKSHOPS

Complete Web Developer in 2024, Zero to Mastery Academy

- Gained hands-on experience in full-stack web development and learned to build responsive web pages.
- Covered modern technologies and frameworks including HTML, CSS, JS, React, and Node.js.

CONFERENCE ABSTRACTS & PRESENTATIONS

Vento, N., Liu, E., and Johns, M., 2023, A deep learning workflow for petro-mechanical facies predictions in unconventionals, International Meeting for Applied Geoscience & Energy 2023.

Powers, H. and Vento, N., 2023, Spatially varying Chi volumes: A study in offshore Australia on background trend calculation from the Shuey two-term approximation, International Meeting for Applied Geoscience & Energy 2023.

EDUCATION

Colorado State University

Master of Science, Geosciences (GPA: 4.0 / 4.0) Aug. 2018 – May 2020

- Thesis: "Hypothesis-based Machine Learning for Deep-water Channel Systems"

Texas A&M University

Bachelor of Science, Geology (GPA: 3.73 / 4.0) Aug. 2014 – May 2018