# Noah Vento

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## WORK EXPERIENCE

**WaterBridge**
***Analytics Engineer*** Feb. 2024 – Present

- Developing a real-time pipeline hydraulics simulation and analysis tool to support control room operations, enabling proactive monitoring, anomaly detection, and optimized flow management.
- Designed and implemented a probabilistic simulation model to forecast pipeline cost estimates, incorporating uncertainty analysis and risk factors to enhance decision-making precision for project managers.
- 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.

## SKILLS

Python, Spotfire, Git, SQL, Docker, Linux, ArcGIS, Petrel, RokDoc, Geoteric, Paleoscan, 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