ROLAND DIBY

rolanddiby@gmail.com • +1 (651) 500-7099 • Houston, TX (willing to relocate)

EDUCATION

TEXAS A&M UNIVERSITY AT COLLEGE STATION (TAMU), TX   *May 2025*
Master of Science in **Petroleum Engineering**

UNIVERSITY OF LOUISIANA AT LAFAYETTE (ULL), LA   *May 2022*
Bachelor of Science in **Petroleum Engineering**
                    With a Minor in **Mathematics**

SKILLS

- [ ] **Thrives in a highly dynamic, fast-paced environment with an ability to handle multiple tasks and efficiently prioritize work to meet deadlines.**
- [ ] **Self-starter who can proactively manage the completion of projects. Good leadership skills.**
- [ ] **Practical and pragmatic approach to problem solving; Strong work ethic.**
- [ ] **Possesses a high willingness to receive coaching, mentoring, and training to continually improve**
- [ ] **Perform engineering calculations as required.**
- [ ] **Ability to clearly explain highly technical and complex concepts.**
- [ ] **Ability to communicate effectively with clients and the development team.**
- [ ] **Ability to multitask and work concurrently on multiple projects.**
- [ ] **High attention to detail, and comfortable working in a team-oriented environment.**

- [ ] **Assemble open-source machine learning and data mining workflows in Python to solve fundamental data science problems related to petroleum engineering.**
- [ ] **Perform Probabilistic Petroleum Reserves and Economics.**
- [ ] **Understanding of economics, with a preference for application in oil and gas developments.**
- [ ] **Knowledge of accounting and finance.**
- [ ] **Understanding of database/reporting technology.**
- [ ] **Ability to be self-motivated and a fast learner.**
- [ ] **Understand Oil & Gas Law, Conservation, and Economics.**
- [ ] **Perform Decline Curves Analysis**
- [ ] **Perform Pressure Volume Temperature (PVT) Analysis of Reservoir Fluid.**
- [ ] **Perform valuation of Assets.**
- [ ] **Understand SEC reserve reporting criteria.**

Software Proficiency: Techlog, Aries, TNavigator, Eclipse, Petrel, @RISK, CMG (GEM, IMEX), RoseRA, Kinetix, Enverus.
Programming Languages: Python, R, VBA.
Finance and Economics: Monte Carlo Simulation (MCS), Discounted Cash Flow (DCF), Optimum Bidding Analysis.
Computer Skills: Microsoft Office (Word, Excel, Access, PowerPoint, and Outlook)
Languages: English, French.

PROFESSIONAL EXPERIENCE

★ *Texas A&M University at College Station, TX*

Reservoir Engineer - Graduate Research Assistant   *Aug 2023 - May 2025*

Master's Thesis: Value of Offshore Pore Space for Carbon Capture and Storage

- ➤ Develop comprehensive economic models, employing advanced tract valuation methods to assess the value of offshore pore space for carbon capture and storage (CCS) projects.
- ➤ Evaluate project economics and profitability, leveraging discounted cash flow analysis and royalty forecasts to inform investment decisions.
- ➤ Review contracts and documentation related to mineral interests and land acquisitions to ensure compliance and accuracy in project execution.
- ➤ Develop a bidding strategy model to optimize the likelihood of securing offshore tracts.
- ➤ Utilize Monte Carlo simulations to characterize reservoir potential and assess CCS project viability under uncertainty.

➢ Conduct reservoir modeling and simulations using CMG (GEM) software to evaluate and analyze the feasibility and effectiveness of CO_2 injection across diverse geological storage targets, ensuring alignment with project goals.

★ *SEG EVOLVE PROGRAM (ExxonMobil)*

Intern Reservoir Engineer   *Aug 2024 - Feb 2025*

➢ Developed and executed advanced reservoir models and simulations using Petrel to evaluate reservoir performance and optimize capacity strategies while minimizing risks.
➢ Collaborate closely with geologists, petrophysicists, and geophysicists teams to assess reservoir properties such as thickness, porosity, permeability, and initial water saturation.
➢ Evaluate reservoir heterogeneities to ensure accurate representation in simulation models.
➢ Analyze fluid flow in the reservoir, determining the extent of CO_2 plume migration and the pressure front.
➢ Analyze reservoir data and well logs and develop reservoir conceptual models.
➢ Conduct uncertainty analyses to quantify potential outcome ranges.

★ *AmSpec Group - Houston, TX*

Reservoir Fluid Analyst   *May 2022 - Jan 2024*

➢ Conduct compositional and purity analyses, measurements, and reporting for diverse products, including Crude Oil (WTI, Eagle Ford), Liquid Petroleum Gas (LPG), and Liquid Natural Gas (LNG) utilizing ASTM and UOP methods.
➢ Take charge of Quality Control and calibration of laboratory equipment to ensure accurate and reliable results.
➢ Keep clients and supervisors informed by providing regular updates on tests and analyses via emails and phone calls.
➢ Stay updated with the latest laboratory analysis methods to maintain proficiency in the field.
➢ Perform thorough data analysis to ensure the accuracy of the analyses and measurements.
➢ Utilize the AIMS system to create and generate a Certificate of Analysis and tests/slates analysis.

★ *University Of Louisiana at Lafayette, LA*

Production Engineer - Undergraduate Research Assistant   *Aug. 2019 - Aug 2021*

Research topic: Measurement of Clay's swelling using Direct Image Correlation (DIC)

➢ Localized Core Shale based on well mud-logging data. Perform Core Shale sample preparation.
➢ Ran experiments using Core Shale samples from Mancos, Eagle Ford, Berrea, Tuscaloosa, and Marcellus formations.
➢ Made various mixture solutions for experimental purposes.
➢ Kept records of inventory and experiments.
➢ Developed Enhanced Oil Recovery (EOR) Methods.
➢ Planned and scaled experiments and assisted with troubleshooting experiments.
➢ Analyzed shale's clay content, porosity, permeability, and mineralogy.
➢ Analyzed and processed well logs using Techlog.
➢ Used Python to perform Numerical Methods of Analysis with Petroleum Engineering Data.

ACCOMPLISHMENT / AWARDS

Certificate of Achievement **CMG** Modelling's workflows, **2024**.
Texas A&M University at College Station Graduate **Fellowship**, **2023 - 2026**.
Member of the Society of Petroleum Engineers (**SPE**), Texas A&M University at College Station chapter, **2024**.