

IBRAHIM CHAUDHRY

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EDUCATION

The University of Texas at Austin Bachelor of Science in Petroleum Engineering
Certifications: Elements of Computing

December 2024

EXPERIENCE

Tower Rock Oil and Gas – *Engineering Intern/Part-time Engineer*

May 2024 – Present

- Assessed economic worth for deals totaling over \$10 million, safeguarding company interests.
- Produced 100+ economic reports in Enertel Spotfire from type/decline-curve analysis, improving viability assessments.
- Conducted comprehensive valuations of oil and gas leases/royalties, including detailed title research and analysis, verifying DOI and NRI calculations. Assisted in Mineral Rights Acquisition by conducting due diligence to support informed decision-making.
- Performed Decline Curve and Type Curve Analysis for predicting future production rates, reservoir characterization, and well performance evaluation.
- Executed Discounted Cash Flow Analysis to assess the economic viability of projects.
- Utilized Enertel Spotfire and Enverus for data visualization, market analysis, and strategic planning to drive business decisions.

Summer Undergraduate Research Internship – *Undergraduate Researcher*

June 2023 – August 2023

- Conducted research on flow assurance wax (paraffin) deposition employing a cold finger model.
- Evaluated various types of steel with comparable roughness to identify the steel variant prone to maximum deposition accumulation.
- Additionally, compared samples of High Temperature Gas Chromatography across diverse steel types, varying temperatures, and oil rotation speeds for comprehensive analysis.

iCode Southlake – *Technical Lead and Marketing Strategist (part-time)*; Remote

April 2022 – August 2022

- Lead data-driven marketing campaigns for academic programs with a goal of 5% increase in conversion rate
- Delivered computer science curriculum for over 300 K-12 students, instilling life-long learning skills for the next generation

PROJECTS/COURSEWORK

Projects:

February 2024

- Energy A.I. Hackathon 2024
 - Created a Python-based data analytics and machine learning workflow to forecast the average pump difference during drill out for a set of 15 wells.
 - Utilized a diverse array of predictor features, incorporating both single estimates and an uncertainty model represented by 100 realizations per well.

Coursework:

- High Performance Computing for Engineers
 - Introduced UNIX/Linux environments, HPC resources, parallelization paradigms (MPI, CUDA), and Julia programming in a scientific computing course.
- Reservoir Engineering III (Simulation)
 - Applied mathematical equations and numerical methods to model fluid flow in reservoirs and performed numerical reservoir simulation, including well treatment and history matching.
 - Completed a simulation project using a commercial simulator, gaining hands-on experience in reservoir engineering.

LEADERSHIP EXPERIENCE AND ACTIVITIES

UT Muslim Student Association – *Education Director*

May 2021 – December 2021

- Organize events with professionals from various fields to allow students on the university campus to have access to the experts.
- Lead and participate in weekly planning meetings
- Set up activities with college students to build a culture of care, trust, and teamwork

Helping Hand for Relief and Development – *Southfield, MI* – Lead Volunteer

Jan 2021 – Aug 2021

- Packed food and clothing for donations around the world and in the US for those that are in need in times of famine, natural disasters, and COVID
- Sound knowledge of food pantry operations
- Familiarity with food storage and rotation procedures
- Ability to efficiently sort, stock, carry, and unload food and clothing boxes.

PUBLISHED WORKS

Paper Experimental Investigation of Wax Deposition on Multiple Steel Alloys, Journal of Petroleum Science and Engineering, vol. 212, 2024.
Co-authors: Derek Burmaster, Ibrahim Chaudhry, Yingda Lu.

SKILLS AND INTERESTS

Languages: Urdu (Native), Hindi (Fluent), Arabic (Intermediate), Spanish (Beginner)

Technology/Skills: Python, Julia, SQL, Excel, CMG, MS Office, Research, Data Analysis, Consultative Skills, Work Ethic, Problem-Solving, Interpersonal Skills, Spotfire, Enverus(DI/Prism) Certified, Combo Curve Certified, Enertel

Interests: Consulting, Data Science, Analytics, Reservoir Engineering, Flow Assurance