TRISTAN RAJNATH

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EDUCATION

The University of Texas at Austin	**Bachelor of Science in Petroleum Engineering**	*Spring 2025*
	Sustainable Energy Minor	
	Major GPA- 3.54/4.00	

EXPERIENCE

B&W Resources – *Reservoir Engineer Intern;* Houston, Texas.   *Summer 2024*
- Ranked operators by EUR within the tiered acreage using ComboCurve's DCA for circa 10,000 wells
- Created tiered acreage utilizing Pore Pressure and OOIP maps high grading key locations for potential non-op investment opportunities
- Created zonal assignments for 1500 DST and Production Tests in the Bakken using Python
- Produced 22+ economics reports and generated decline curves for over 70,000 wells, increasing deal evaluations

Pan American Energy – *Petroleum Engineer Intern;* Buenos Aires, Argentina.   *Summer 2023*
- Automized diagnosis saving company 100+ hours and recommendations on wells operating parameters guided by company specific rules
- Development and analysis of well reserves to optimize perforation selection from individual wells
- Successfully evaluated geologic worth of assets over $20,000 in Comodoro Rivadavia
- Gained hands-on experience by visiting drilling rigs, deepening understanding of on-site operations.

ENGINEERING PROJECTS

2024 Geothermal Collegiate Contest   *Fall 2024*
- Commissioned with developing a real-world geothermal solution for UT Austin
- Assigned Team Lead configuring group meetings and project plan
- Developing a strategic plan to achieve zero emissions for UT, transitioning Austin Energy Plant to a geothermal-based energy system.

Enverus Certified Specialist Certificate   *Fall 2024*
- Identified best producing intervals and best normalization of type curves in lateral length as well as proppant and fluid intensity
- Analyzed the drilling and permitting activity around a given asset position

ComboCurve Deal Evaluation Certificate   *Fall 2024*
- Completed ComboCurve Deal Evaluation Course, enhancing skills in PDP evaluation, forecasts, and energy transaction analysis.

4th Place – 2023 PGE Energy AI Hackathon   *Spring 2023*
- Improved data integrity by iteratively imputing missing data using a random forest algorithm for over 30 features
- Team Captain charged with programming predictive machine learning outline
- Decided best predictive machine learning model as neural networks and generated code's cardinal details

2022 PGE Energy AI Hackathon   *Spring 2022*
- Placed 16th out of 21 teams
- Engineered most effective variables for decision tree predictive machine leaning model
- Analyzed mass data and produced slides to point out all main conclusions

Combo Curve Project   *Fall 2021*
- Learned all basics on operating Combo Curve and how to use all sections effectively for allocated data/project
- Worked on oil and gas asset development, reserves, economic models, forecasts, and decline curves.

Code Academy Python 3   *Fall 2021*
- Ability to utilize different tools for writing and running Python code
- Understand and apply core programming concepts like data structures, conditionals, loops, variables, and functions
- Identify core aspects of programming and features of the Python language

UT AFFILIATED ORGS

Society of Petroleum Engineers   *Spring 2021- Present*
- Assisted board in recruitment of students
- Cooperated with ambassadors to setup special events

ADDITIONAL INFORMATION

Computer Skills: Enverus, Combo Curve, Python, MS Excel, Word, PowerPoint, Outlook.

Interests: Reservoir Engineering, Fracture Simulations, Reservoir Simulations, Data Analytics, Machine Learning.

Work Eligibility: U.S. citizen