

# Caleb Alpire

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## EDUCATION

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### Texas A&M University

*BS in Petroleum Engineering*

*Minors in Project Management and Economics*

- Organizations: Society of Petroleum Engineers, Chevron's SPE Datathon, Theta Tau.

College Station, Texas

May 2022

## EXPERIENCE

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### Chevron's SPE Datathon

*Competitor*

- Competing alongside PhD candidates analyzing given dataset to predict and optimize Rate of Penetration.
- Developing and performing hyperparameter optimization on kNN and SVM machine learning models to address mission.

College Station, TX

February 2022 – Present

### Harold Vance Department of Petroleum Engineering

*Data Analytics and Machine Learning Grader / TA*

- Operate under Dr. Siddharth Misra educating and fostering Data Analytics and Machine Learning for Subsurface Characterization using Python. Duties include:
  - Prepare class materials such as Jupyter notebooks to better present machine learning methods and challenge students to apply learned concepts for subsurface characterization as well as data management.
  - Install and troubleshoot software in designated workstations and student's personal computers.
  - Designing and grading class assignments, projects, and knowledge examinations.
  - Provided office hours physically and virtually to accommodate student needs.

College Station, TX

December 2021 – Present

### Student Engineers' Council (SEC) Directed Internship

*Intern*

- Mentored and guided by industry professionals to evaluate and address environmental damage cause by flaring.
- Collaborated with a multidisciplinary engineering team to design a flare Gas Separator/Carbon Capture and storage system to allow for safe disposal of carbon dioxide while complying with Class I Div 1 Standards.

College Station, TX

July 2021 – August 2021

### Texas State Technical College Cybersecurity Program

*Cybersecurity Trainee*

- Trained to configure, troubleshoot, and maintain computer systems and networks, as well as virtualized environments, and secure network communications.
- Experienced in network security to mitigate security threats to system and networks.
- Program was taken as preparation for CompTIA certifications: Network +, and Cybersecurity +.

Waco, TX

June 2021 – July 2021

## LEADERSHIP EXPERIENCE

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### Theta Tau

*Elected Chapter Marshal*

- Coordinated with five officers to restructure Theta Tau to better boost member's professional education through Professional Development events such as financial education workshops, educational speakers, etc.
- Designed and implemented a new candidate education system by creating a benchmark that candidates should meet that properly reflect the values and reputation of Theta Tau.
- Determined and managed risk on activities and proposals to protect Theta Tau's reputation.
- Led a committee of 3 volunteers to educate and guide freshman members through initial college year by conducting orientation sessions and conferences with assigned mentors.

College Station, TX

August 2019 – May 2020

## TECHNICAL SKILLS

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- Fluent in Spanish and English.
- Proficient in Excel, Macros, Python, Visual Studio, Microsoft Suite, Reservoir Modeling using CMG
- Skilled in Machine Learning using NumPy, Pandas, XGBoost, Random Forest, Scikit-Learn as well as other python packages for Subface Characterization.
- Experienced in Data Management, Data cleansing and trend analysis, MATLAB, VBA, AutoCAD, Kappa, AWS, Tableau.
- Versed in Network design, set up and troubleshooting using Cisco Packet tracer, Wireshark, Visio.

## HONORS RECEIVED

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- Dr. Doug Von Gonten Scholarship in Petroleum Engineering
- Chancellors Initiative Scholarship
- TSTC Partners with ENGR[X] Scholarship