



# Londyn Callahan

## Geophysical Data Analyst

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### STRENGTHS

- ♥ **Adaptability**  
Frequently pivoted between multiple high-stakes projects, succeeding under pressure and fast-tracking solutions.
- 💬 **Effective Communication**  
Often bridged gaps between technical teams and management, fostering unity and collective engagement.
- 📊 **Analytical Thinking**  
Insightfully assessed varied datasets, drawing conclusions which improved processing methodologies.
- 👥 **Collaboration**  
Consistently collaborated across departments ensuring seamless workflows and enhanced outputs.
- 🏆 **Leadership**  
Guided junior analysts through complexities of geophysical data sets instilling confidence and skill development.

### SKILLS

Seismic Data Analysis

Hydroacoustic Analysis

Microsoft Office Suite

Data Evaluation Procedures

Communication Skills

Software Testing

Data Interpretation

Scientific Reporting

### SUMMARY

Experienced Geophysical Data Analyst with over 6 years in seismic, hydroacoustic, and infrasonic data analysis. Committed to driving science-based strategies to enhance geophysical research. Proficient in executing scientific evaluations that improve regional monitoring while adhering to strict confidentiality guidelines. Capable of liaising with technical teams and management to communicate complex findings clearly. Expertise in developing improvements for evaluation processes that optimize operational efficiency in major research initiatives. A valuable contributor to both data integrity and dissemination through well-crafted reports. Open to leveraging skills and insights at KDL Technologies.

### EXPERIENCE

#### Geophysical Data Analyst

Data Analysis Solutions 📅 June 2021 - Present 📍 Tampa, FL

Served as an expert geophysical data analyst with a focus on seismic and hydroacoustic data processing. Led strategic evaluations aligned with research projects to maintain accuracy within AFTAC databases. Enhanced existing protocols that excelled in supporting national monitoring efforts. Collaboration between cross-functional teams streamlined software testing effective outcomes throughout the development cycle. Actively presented concise scientific briefs that resonated with key stakeholders, reinforcing alignment on project objectives.

- Offered subject matter expertise in seismic and hydroacoustic analysis to various research projects.
- Improved preliminary analytical methods for enhanced regional monitoring efficiency.
- Conducted detailed evaluations of geophysical data following military compliance standards.
- Collaborated effectively with development teams for rigorous tool testing post-modification.
- Executed comprehensive analysis of teleseismic data ensuring accurate epicenter determination.
- Prepared and communicated impactful scientific reports to senior management.

#### Geophysical Data Analyst

TechWave Analytics 📅 March 2018 - May 2021 📍 Jacksonville, FL

Acquired extensive experience in interpreting seismic data for diverse research projects contributing to national security frameworks. Drove efficiencies by refining evaluation tools and procedures. Actively engaged with internal and external stakeholders, providing clear representations of findings that informed best practices. Delivered training sessions to elevated team skill sets exploring data acquisition methodology.

- Performed in-depth seismic analysis facilitating support for ongoing national monitoring.
- Assessed analytic tools leading to recommended enhancements to mitigate uncertainties.
- Crafted detailed scientific and trip reports directed at various stakeholder groups.
- Provided advisory on best practices related to regional geophysical monitoring.
- Coordinated daily functioning with technical specialists fostering team cohesion.
- Trained junior analysts on industry-leading data processing software applications.

### LEADERSHIP & AWARDS

- Dean's List, University of Florida, 2018-2021
- Certified Geophysical Analyst (CGA), Geophysical Society of America, 2022

### EDUCATION

#### Bachelor's Degree in Geophysical Sciences

University of Florida 🎓 GPA: 3.8 📅 2021 📍 Gainesville, FL

**Coursework:** *Seismic Analysis, Hydroacoustics, Data Processing, Advanced Analytics*

Operational Efficiency

Process Improvements

Project Management

Technical Writing

Cross-Functional Collaboration

Regulatory Compliance

Training and Development

Quantitative Analysis

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



● Geophysical Data Analyst at  
Data Analysis Solutions (5.2  
Years)

● Geophysical Data Analyst at  
TechWave Analytics (3.2 Years)

## CERTIFICATIONS

- Certified Geophysical Analyst (CGA) 📅 2022
- Top Secret Clearance with SCI Eligibility 📅 2023

## TECHNICAL SKILLS

- **Data Analysis Tools:** Matlab, Python, R
- **Processing Software:** ArcGIS, SeisWin, GeoMap
- **Reporting Tools:** Microsoft Word, PowerPoint, LaTeX
- **Database Management:** SQL Server, Oracle, Access
- **Visualization Platforms:** Tableau, MATLAB, Seismic Visualization Tools
- **Monitoring Systems:** SCADA, GMS, AWS Monitoring
- **Field Equipment:** High-Frequency Sensors, Infrasonic Tools, GPS Systems
- **Statistical Methods:** Regression Analysis, Time-Series Analysis, Multivariate Analysis
- **Compliance Standards:** NISPOM, DOD Directives, Military Protocols
- **Collections Methods:** Seismic Systems, Hydroacoustic Arrays, Sensor Network

## PROFESSIONAL AFFILIATIONS

- Member, Geophysical Society of America
- Volunteer, Local Science Fair Judge

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST