



Londyn Callahan

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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 June 2021 - Present
Data Analysis Solutions 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 March 2018 - May 2021
TechWave Analytics 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 2021
University of Florida GPA: 3.8 Gainesville, FL

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

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

SKILLS

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|------------------------------|------------------------|--------------------------|----------------------------------|
| • Seismic Data Analysis | • Communication Skills | • Operational Efficiency | • Cross-Functional Collaboration |
| • Hydroacoustic Analysis | • Software Testing | • Process Improvements | • Regulatory Compliance |
| • Microsoft Office Suite | • Data Interpretation | • Project Management | • Training and Development |
| • Data Evaluation Procedures | • Scientific Reporting | • Technical Writing | • Quantitative Analysis |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST