


# KALEB ENDALE

## Data Analytics Professional | Oil & Gas Technology Specialist

 Edmonton, Alberta, Canada

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 780-964-6896

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## PROFESSIONAL SUMMARY

Dynamic data professional with 13+ years of progressive experience in the energy sector, combining deep operational knowledge with advanced analytics capabilities. Expert in transforming real-time operational data into actionable insights, with proven success in technical support, field operations, and data-driven decision making. Uniquely positioned to bridge the gap between field operations and modern data science, with expertise in Python, R, SQL, machine learning, and industry-specific technologies.

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## CORE COMPETENCIES

### Technical Skills

- **Programming Languages:** Python, R, SQL, JavaScript, Linux
- **Data Analysis:** Advanced statistical analysis, predictive modeling, time-series analysis
- **Data Visualization:** Tableau, Power BI, ggplot2 (R), Matplotlib/Seaborn (Python), Excel
- **Machine Learning:** scikit-learn, TensorFlow, neural networks, AI/LLM implementation
- **Database Management:** SQL Server, data pipeline development, ETL processes
- **Web Development:** Full-stack capabilities, API integration
- **Cloud & DevOps:** Cloud-based monitoring systems, TCP/IP networking

### Industry Expertise

- **Oil & Gas Operations:** MWD/LWD technologies, SAGD operations, frac monitoring
- **Acoustic Data Analysis:** Well integrity assessment, real-time monitoring
- **Remote Operations:** RTOC management, diagnostic troubleshooting
- **Safety & Compliance:** H2S Alive, WHMIS, Petroleum Safety, regulatory reporting

### Business Skills

- Data-driven decision making
  - Cross-functional team leadership
  - Project management
  - Technical training & documentation
  - Stakeholder communication
  - Process optimization
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## PROFESSIONAL EXPERIENCE

### COLD BORE TECHNOLOGY | Edmonton, AB

*Leading provider of acoustic monitoring solutions for the oil & gas industry*

#### Remote Technical Support Operator / RTOC Specialist | 2021 - 2024

- Provided advanced technical support to field operations across North America, resolving complex issues remotely
- Developed Python-based analytics tools to monitor and analyze real-time frac tree data streams
- Created automated reporting systems using SQL and Python, reducing report generation time by 40%
- Implemented predictive maintenance algorithms that reduced system downtime by 25%
- Trained and mentored junior technicians on data analysis techniques and troubleshooting procedures

#### Sonic Analyzer & Data Technician | 2016 - 2021

- Pioneered acoustic data analysis methods to assess well integrity and optimize fracking operations
- Built custom dashboards in Tableau to visualize pressure, flow, and acoustic data patterns
- Managed end-to-end data collection for 500+ wells, ensuring 99.9% data integrity
- Collaborated with engineering teams to develop new monitoring protocols and KPIs
- Led on-site operations for high-profile SAGD projects, coordinating with multiple stakeholders

### HALLIBURTON | Various Locations, Canada

#### MWD/LWD Field Engineer | 2011 - 2015

- Led technical operations for Steam Assisted Gravity Drainage (SAGD) projects
- Operated Magnetic Guided Tools (MGT) achieving industry-leading efficiency metrics

- Successfully completed first underbalanced drilling project using GABI and PWD technologies
- Supervised real-time data acquisition and quality control for formation evaluation
- Maintained 100% safety record while managing high-pressure drilling operations

## **KING'S UNIVERSITY | Edmonton, AB**

### **Chemical Analyst | 2010 - 2011**

- Conducted advanced chemical analyses using chromatography and spectroscopy
- Developed and validated analytical methods under GMP requirements
- Authored technical papers and presented research findings

## **SAFeway CANADA | Edmonton, AB**

### **Grocery Clerk | 2001 - 2004**

- Developed strong customer service and organizational skills
  - Managed inventory and maintained efficient operations
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## **EDUCATION**

### **Bachelor of Science in Chemistry**

King's University, Edmonton, Alberta | 2010

### **Google Data Analytics Professional Certificate**

Google Career Certificates | 2024

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## **CERTIFICATIONS & PROFESSIONAL DEVELOPMENT**

### **Data Science & Technology**

- Google Data Analytics Professional Certificate (2024)
- 100 Days of Code: The Complete Python Pro Bootcamp
- Artificial Intelligence A-Z: Build 7 AI + LLM & ChatGPT
- Machine Learning A-Z: AI, Python & R + ChatGPT
- The Complete Neural Networks Bootcamp: Theory, Applications
- The Complete SQL Bootcamp: Go from Zero to Hero
- The Complete Web Development Bootcamp
- Complete Linux Training Course

## Industry Certifications

- First Aid Certification
  - H2S Alive
  - Transportation of Dangerous Goods (TDG)
  - Workplace Hazardous Materials Information System (WHMIS)
  - Petroleum Safety Training
  - Valid Canadian Passport with L1B U.S. Visa
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## KEY ACHIEVEMENTS

- **Operational Excellence:** Reduced system downtime by 25% through predictive analytics implementation
  - **Innovation:** Developed proprietary acoustic analysis algorithms improving well integrity assessments
  - **Leadership:** Led cross-functional teams on multiple SAGD projects with zero safety incidents
  - **Technical Expertise:** Recognized as subject matter expert for acoustic monitoring technologies
  - **Continuous Learning:** Completed 8+ professional development courses while maintaining full-time position
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## TECHNICAL PROJECT HIGHLIGHTS

### Real-Time Data Pipeline Development

- Built automated data collection system processing 1M+ data points daily using Python and SQL
- Integrated multiple data sources into unified monitoring dashboard

### Predictive Maintenance Model

- Developed machine learning model to predict equipment failures 72 hours in advance
- Achieved 85% accuracy in failure prediction, saving \$500K+ in prevented downtime

### Acoustic Pattern Recognition System

- Created algorithm to identify anomalies in acoustic signatures using signal processing techniques
  - Reduced false positive alerts by 60% while maintaining 100% critical event detection
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## ADDITIONAL INFORMATION

- **Languages:** English (Native)
- **Availability:** Immediate
- **Work Authorization:** Canadian citizen, L1B U.S. Visa
- **Willing to:** Relocate, Travel (up to 50%), Work remote/hybrid arrangements