

Stella Beck

Geophysicist/Geodesist

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Baltimore, MD 21201

STRENGTHS

- Analytical Skills**
Refined the ability to pinpoint data inaccuracies during analysis, driving actionable insights.
- Leadership**
Energy led diverse teams towards delivering successful research outcomes amid tight timelines.
- Creative Problem Solving**
Proactively found solutions for complex geophysical challenges, enhancing team decision-making processes.
- Adaptability**
Thrived under pressure, quickly adjusting strategies according to evolving project demands.
- Effective Communication**
Expertly articulated technical concepts to stakeholders, gaining trust and clarifying expectations.

SKILLS

- Geophysical Data Analysis
- Algorithm Development
- Software Development MATLAB
- Python Machine Learning
- Signal Processing
- Research Leadership
- Technical Documentation
- Data Visualization
- Team Collaboration
- Problem Resolution
- Statistical Analysis
- Sensor Evaluation
- Geodesy Techniques
- Advanced Analytics

SUMMARY

Driven geophysicist with over five years in geophysical data analysis and navigation systems. Experienced in developing innovative algorithms and user-friendly software tools for real-world applications. Strong background in physics and mathematics, complemented by a Master's degree in Geophysics. Skilled at leading research initiatives that integrate advanced data science methods to enhance defense-related navigation modalities. Passionate about supporting critical national missions through accurate geophysical insights and mentoring fellow researchers.

EXPERIENCE

Geophysicist

GeoDynamics Solutions

June 2021 - Present

Washington, DC

- Serves as a geophysicist specializing in data analysis relevant to military navigation systems, fostering powerful operational outcomes. Responsible for pioneering projects regarding the accuracy and applicability of geophysical data for various platforms.
- Analyzed geophysical data products, enhancing their reliability for military navigation systems.
 - Developed algorithms integrating geophysical data into navigation frameworks, significantly improving mission success rates.
 - Led interdisciplinary teams providing technical counsel on geophysical sensors' integration into defense operations.
 - Collaborated closely with military sponsors to evaluate cutting-edge geophysical solutions responding to urgent needs.
 - Created error models defining implications of geophysical data sources on mission-critical activities.
 - Applied machine learning techniques, optimizing data processing workflows to achieve operational efficiency.

Junior Geophysicist

EarthTech Innovations

August 2018 - May 2021

Alexandria, VA

- Contributed as a junior geophysicist, participating in software development pipelines aimed at advancing geophysical analyses. Collaborated intensively with senior team members to elevate service quality in defense technology.
- Supported production-level software tool creation for geophysical data analysis, enhancing user experience.
 - Conducted extensive assessments of current navigation methodologies, suggesting valuable improvements.
 - Assisted in geophysical data evaluations, ensuring alignment with military platform requirements.
 - Engaged in collaborative research projects focused on refining geophysical analysis technologies.
 - Participated in designing novel geophysical sensors, enabling innovative advances for national defense.
 - Documented findings and generated comprehensive reports to inform stakeholder decisions.

LEADERSHIP & AWARDS

- Certified Geophysicist, American Geophysical Union, 2021
- Excellence Award in Research, University of Maryland, 2020

EDUCATION

Master's Degree in Geophysics

University of Maryland

GPA: 3.8

2020

College Park, MD

Coursework: *Geophysics, Earth Science, Mathematics, Signal Processing*

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- Geophysicist at GeoDynamics Solutions (5.2 Years)
- Junior Geophysicist at EarthTech Innovations (2.8 Years)

CERTIFICATIONS

- Certified Geophysicist 📅 2021
- Project Management Professional (PMP) 📅 2025

TECHNICAL SKILLS

- **Programming Languages:** MATLAB, Python, R
- **Data Analysis Tools:** Excel, MATLAB, Python Pandas
- **Visualization Software:** Tableau, Matplotlib, Seaborn
- **Machine Learning Frameworks:** TensorFlow, Scikit-learn, PyTorch
- **Development Methodologies:** Agile Development, Waterfall
- **Research Platforms:** GitHub, JIRA, Confluence
- **Testing Tools:** Unit Testing, Integration Testing, Regression Testing
- **Simulation Software:** MATLAB Simulink, COMSOL
- **Geospatial Analysis Tools:** ArcGIS, QGIS, Google Earth
- **Error Modeling Techniques:** Statistical Methods, Monte Carlo Simulations

PROFESSIONAL AFFILIATIONS

- Member, American Geophysical Union
- Contributor, Geophysics Society of America

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST