

Karter Dean

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SUMMARY

Master's degree candidate specializing in Data Science with practical experience in healthcare analytics. A strong collaborator engaged with cross-functional teams to derive meaningful insights from large datasets. Proficient in Python and SQL, utilizing data mining techniques and machine learning models to enhance predictive analytics. Developed streamlined workflows and visualizations using Tableau and PowerBI, ultimately contributing to improved public health outcomes. Demonstrated ability to handle multiple projects effectively while maintaining high-quality standards and fostering teamwork. Eager to contribute innovative data solutions that make a difference in community health.

EDUCATION

Master of Science in Data Science 2026
University of Washington GPA: 3.8 Seattle, WA
Coursework: Machine Learning, Data Analysis, Statistical Methods, Public Health Informatics

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Data Visualization Tools:** Tableau, Power BI, AWS-Quicksight
- **Machine Learning Techniques:** Neural Networks, Decision Trees, Association Rule Mining
- **Statistical Models:** Regression Analysis, Time Series Analysis, Clustering Techniques
- **Database Management Systems:** MySQL, PostgreSQL, MongoDB
- **Cloud Platforms:** AWS-Sagemaker
- **Analysis Frameworks:** Pandas, NumPy, Scikit-learn
- **Documentation Tools:** Jupyter Notebooks, Markdown, Microsoft Office
- **Development Methodologies:** Agile, Scrum, Waterfall
- **Collaboration Platforms:** Slack, GitHub, Trello

SKILLS

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|------------|------------------------|------------------------|--------------------------|
| • Python | • Machine Learning | • Predictive Analytics | • Visualization Tools |
| • SQL | • Data Mining | • Pattern Recognition | • Health Informatics |
| • Tableau | • Statistical Analysis | • Data Engineering | • Statistics |
| • Power BI | • Excel | • Deep Learning | • Clinical Data Analysis |

EXPERIENCE

Data Science Intern January 2026 - Present
University Project Seattle, WA

Supports analytics operations as a data science intern focused on health informatics. Collaborated with analysts and healthcare professionals to analyze clinical datasets and provide insights into patient care strategies.

- Collaborated with analysts and healthcare professionals to extract insights from large clinical datasets.
- Utilized Python and SQL for data standardization and analysis, enhancing integration across disparate systems.
- Applied machine learning to identify diagnostic patterns, improving prediction models for patient outcomes.
- Developed visual representations using Tableau, aiding stakeholders in decision-making processes.
- Engineered algorithms simplifying data curation, significantly optimizing workflow efficiency.
- Executed end-to-end project tasks from data processing through final visualization.

Research Assistant September 2025 - December 2025
University Research Lab Seattle, WA

Focused on healthcare research as a research assistant utilizing statistical methods. Assisted faculty in analyzing healthcare data toward impactful scholarly contributions.

- Engaged in statistical analysis of healthcare datasets, contributing to significant research outputs.
- Employed machine learning for predictive modeling relevant to public health studies.
- Created insightful data visualizations using Power BI, effectively communicating findings to peers.

- Standardized data collection processes ensuring reliability and consistency in results.
- Participated actively in seminars presenting research updates and receiving interdisciplinary feedback.
- Was involved in developing models impacting local community health initiatives.

Machine Learning Team Member

March 2025

Hackathon Project

Remote

Participated in a competitive hackathon of emerging technologies focusing on healthcare applications. Established collaborative frameworks applicable in AI-driven projects which facilitate swift iterations and analyses.

- Contributed algorithm development aimed at predicting patient health outcomes using real-time data.
- Implemented clustering methodologies for effective segmentation of patient demographics.
- Co-created prototypes demonstrating potential healthcare interventions based on model outcomes.
- Engaged in dynamic prototyping, adapting quickly through feedback loops during the event.
- Presented findings to experienced judges, recognized for innovative approaches to healthcare solutions.
- Fostered team collaboration boosting productivity within a diverse skill set environment.

LEADERSHIP & AWARDS

- Dean's List, University of Washington, 2025
- Best Hackathon Project, Seattle Health Tech Hackathon, 2025

CERTIFICATIONS

- Data Science Professional Certificate 📅 2025
- Python for Data Science 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Data Science Society, University of Washington
- Volunteer, Seattle Public Health Initiative

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST