

MOSES TRUNDLE-STRACHAN

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SUMMARY

Data science student at the University of Washington (B.A. Geography–Data Science, Statistics minor, June 2027) with experience in machine learning, statistical modeling, geospatial analysis, and data engineering. Projects include a GIS risk model, biomechanics data analysis platform, and B2B schema drift detection system using local LLM embeddings. Research contributor at a 2025 Sabermetrics Seminar. Seeking data science or analytics roles applying ML and statistical rigor to real-world problems.

EDUCATION

The University of Washington

Seattle, WA

B.A. in Geography–Data Science; Minor in Statistics | Expected June 2027

Relevant Coursework: Statistical Computing (R), Multivariable Calculus, Matrix Algebra, Probability I, Statistical Methods in Engineering & Science, Informatics, Population Science (ArcGIS), Data Programming (Python), Computer Programming II (Java)

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, HTML/CSS, Spanish, Dutch

Machine Learning: scikit-learn, TensorFlow, PyTorch, regression, classification, clustering, deep learning, NLP, LLM embeddings

Data & Visualization: pandas, NumPy, Matplotlib, Seaborn, Plotly, ggplot2, Tableau, Jupyter Notebook, ArcGIS, GeoPandas

Statistics: statistical modeling, hypothesis testing, A/B testing, probability, time series analysis

Cloud & DevOps: AWS (S3, EC2, SageMaker, Lambda), Supabase, Docker, CI/CD pipelines, Git

Tools & Platforms: REST APIs, ETL/ELT pipelines, Build.io, Microsoft Office

PROJECTS

Drift Operations – B2B SaaS Platform

Aug 2025 – Present

- Engineered a cloud observation platform using **local LLM vector embeddings** to detect schema and semantic drift in EDI.
- Developed an automated reconciliation engine for complex, nested JSON and EDI formats (ANSI X12/EDIFACT), consuming external REST APIs for data ingestion.
- Implemented CI/CD workflows and high-dimensional vector mapping, reducing manual QA time for enterprise clients.

Vegetation Risk [GitHub](#)

Jan 2026

- Developed a GIS risk model to prioritize vegetation management for **109K+ power line segments** using GeoPandas.
- Built a weighted scoring algorithm integrating tree canopy LiDAR data, critical facility proximity, and segment length.
- Visualized high-risk infrastructure zones with Matplotlib and Plotly dashboards for utility decision-makers.

Driveline Mechanics [GitHub](#)

Dec 2025

- Built a biomechanics analysis platform with 3D visualization (React Three Fiber, 60 fps) and Gemini AI API integration for automated mechanical insights.
- Designed to help MLB organizations analyze pitcher mechanics and identify biomechanical risk factors to prevent arm injuries.

PROFESSIONAL EXPERIENCE

Bubble Bash – Guild of Seattle Children’s Hospital

Mar 2025 – Present

Vice President

- Led fundraising strategy driving **\$250K+ in donations** over 3 years; designed donor tracking workflows in Zeffy and Excel across **200+ donor relationships**.
- Constructed and deployed the guild’s public-facing website (HTML/CSS/JS), establishing its first digital presence.

The Mountaineers

May 2024 – Sep 2025

Program Coordinator

- Managed a cross-functional team of 14 instructors across outdoor education camps; designed curriculum for youth aged 6–16.
- Led field operations, making critical safety decisions in real time across high-risk outdoor environments.

Research Assistant – University of Washington

Mar 2025 – Nov 2025

Data Analyst

- Developed regression and classification models in Python and R to analyze MLB pitcher contract incentives against performance metrics (velocity, spin rate, pitch mix).
- Engineered a reproducible ETL pipeline merging Statcast data with contract records across **10,000+ player-seasons** using pandas, NumPy, and SQL.
- Co-presented findings at the **2025 Sabermetrics, Scouting, and Science of Baseball Seminar** in Chicago.

ACTIVITIES

UW Sports Analytics Club | Alpha Delta Phi Fraternity | Climbing, Backpacking, Snowboarding, Chess, Travel, Sabermetrics