

Keenan Nicholson

Data Analyst & Software Developer

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Education

Bachelor of Arts Major in Computer Science, minor in Geography	Memorial University of Newfoundland Jan 2021 – Dec 2023
Bachelor of Science Major in Computational Mathematics	Memorial University of Newfoundland Sep 2016 – Apr 2020

Relevant Experience

Natural Resources Canada Geospatial Research Assistant	Nov 2024 – Present Corner Brook, NL
<ul style="list-style-type: none">Automated workflows and statistical analyses using Python, R, and MATLAB, to improve efficiency and reproducibility.Supported ecological and forest management research by developing tools and workflows for analyzing advanced remote sensing data, including LiDAR and hyperspectral imagery.Built and optimized scripts and pipelines to extract meaningful insights from large and complex datasets used in land cover classification, forest health assessment, and environmental monitoring.Managed end-to-end data pipelines, handling everything from raw data ingestion to processing, analysis, and delivery of production-ready outputsContributed to applied research projects that shaped strategies and informed environmental policy at the regional and national levels.	
Resource Innovations Software Developer	Jan 2024 – Oct 2024 Corner Brook, NL
<ul style="list-style-type: none">Researched methods to analyze LiDAR data for extracting forest metrics.Utilized R and Python in a cloud computing environment (Amazon Web Services), to process and analyze large-scale datasets for environmental and geospatial research.Planned and supported UAV-based LiDAR surveys to collect high-resolution data for large-scale forest analysis.	
C-CORE Image Analyst	Apr 2023 – Sep 2023 St. John's, NL
<ul style="list-style-type: none">Used Python and visualization libraries, Seaborn and Matplotlib to turn environmental data into clear insights that helped clients make informed decisions.Built interactive dashboards and analytical tools using React, TypeScript, and Material UI.Created APIs and backend logic with Python and FastAPI to serve analytical results.Integrated complex data pipelines into user-facing applications, facilitating real-time insights for clients.	

Technical skills

Languages and Frameworks	Python, MATLAB, R, JavaScript/TypeScript
Data Analysis Tools and Libraries	Excel, Pandas, PyTorch, Seaborn, Matplotlib, scikit-learn
Databases	PostgreSQL, SQLite (SQL)
Other	Linux, macOS, Windows, Git, Cloud Computing (AWS), REST APIs