Keenan Nicholson

Software Developer & GIS Analyst

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Education

Bachelor of Arts   *Memorial University of Newfoundland*
Major in Computer Science, minor in Geography   *Jan 2021 – Dec 2023*

Bachelor of Science   *Memorial University of Newfoundland*
Major in Computational Mathematics   *Sep 2016 – Apr 2020*

Work Experience (selected)

Resource Innovations   *Jan 2024 – Present*
Software Developer   *Corner Brook, NL*

- Data driven full-stack software development of tools and services to help streamline and improve quality of life for clients.
- Research and development of machine learning and A.I. tools to aid in resource management.
- Collection, processing, and analysis of LiDAR and imagery data via Unmanned Aerial Vehicles (UAV).

C-CORE   *Apr 2023 – Sep 2023*
Image Analyst   *St. John's, NL*

- Data driven full-stack development of web applications
  - Frontend: React.js, HTML, CSS, Material UI (MUI), and Chakra UI.
  - Backend: Python, Pandas, SpatioTemporal Asset Catalogs (STAC).
- Analyzing satellite imagery using technologies such as ArcGIS Pro, Python, Pandas, and Matplotlib to monitor iceberg and river ice activity.

Projects

Blog   *Dec 2023*
Personal Project

A blog application where one can create, edit, or browse blog posts by users. https://github.com/Keenan-Nicholson/blog-app.

- Frontend: React.js, HTML, CSS.
- Backend: Express.js, Tanstack, Postgres.

Technical skills

Programming Languages	JavaScript/TypeScript, Python, HTML, CSS
GIS	ArcGIS Pro, QGIS, Pandas/GeoPandas
Frameworks	React.js, Chakra UI, Material UI