

Keenan Nicholson

Software Developer & GIS Analyst

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🐙 github.com/Keenan-Nicholson

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

Work Experience (selected)

Resource Innovations

Software Developer

Jan 2024 – Present

Corner Brook, NL

- Data driven full-stack software development of tools and services to help streamline and improve quality of life of customers.
- Research and development of machine learning and A.I. tools to aid in resource management.
- Collaborating with GIS specialists to integrate software into existing tools and processes.

C-CORE

Image Analyst

Apr 2023 – Sep 2023

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

Social Media Hiking App

Personal Project

Work in Progress

I am actively working on an application that enables users to share their outdoor adventure experiences by uploading .gpx files. The current stage of development involves a backend system that converts and uploads these .gpx files into a PostGIS database. These uploaded adventures are then displayed on an interactive map. Currently, I am in the process of implementing user authentication and login functionalities. <https://github.com/Keenan-Nicholson/hiking-app>.

- Frontend: React.js, HTML, CSS.
- Backend: Python, GeoPandas, FastAPI, TiPg, Postgres (PostGIS).

Blog

Personal Project

Dec 2023

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, GeoPandas, SpatioTemporal Asset Catalogs (STAC)

Frameworks

React.js, Chakra UI, Material UI