

Adam Nearing

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EDUCATION

The Centre of Geographic Sciences (COGS) - NSCC, Lawrencetown NS Sept 2025 - Present

*Geographic Information Systems (GIS)
Advanced Graduate Certificate*

Nova Scotia Community College, Halifax NS Jan. 2023 - Dec. 2024

*Information Technology
Diploma (Cooperative Education)*

Nova Scotia College of Art and Design University, Halifax NS Sept. 2015 - Apr. 2019

*Major in Film Studies & Art History
Bachelor of Fine Arts (Honours)*

PROFESSIONAL EXPERIENCE

Little Symphony Inc., Halifax NS May – Aug. 2023

Web Development Intern (Co-Op)

- Developed full-stack solutions through self-directed technical research, focusing on scalable front-end and back-end logic.
- Presented comprehensive project scopes to stakeholders, translating technical milestones into clear business value.
- Optimized project workflows to meet rigorous development deadlines and technical requirements.

Chebucto Community Net Society, Halifax NS May – June 2024

Project Manager & Backend Developer

- Architected back-end functionalities to enable user-driven internet plan customization and data management.
- Led a development team by establishing weekly project roadmaps and mentoring junior developers in front-end best practices.
- Facilitated technical code reviews and provided architectural guidance to ensure high-quality code standards and logic.

Capstone Project NSCC, Halifax NS Sept. 2024 - Dec. 2024

Project Manager & Systems Architect (ParkBuddy App)

- Managed the end-to-end project lifecycle, overseeing research, database schema design, and full-stack implementation.
- Designed a centralized database architecture to support complex application logic and user data integration.

PROJECTS

Youwind Renewable Energy Site Analysis	Nov. 2025
<ul style="list-style-type: none">Modelled optimized offshore wind farm layouts off the Nova Scotia coast using the Youwind platform, utilizing wake-optimized turbine positioning and custom polygon boundary analysis to model the spatial relationship between array density and wake losses.	
Wind Turbine Data Analysis	Nov. 2025
<ul style="list-style-type: none">Developed an ETL pipeline in R using Tidyverse and GGally to analyze Nova Scotian turbine specs, applying Spearman correlation and matrix reporting to model relationships between rated capacity and physical dimensions.	
Spatial Forestry Database Design & Querying	Nov. 2025
<ul style="list-style-type: none">Architected a PostgreSQL/PostGIS spatial database for forestry management, authoring DDL scripts to automate schema creation and utilizing spatial functions (ST_Crosses, ST_Within) to perform proximity analysis and topological overlays for management reporting.	
Point Classification: LiDAR Terrain Modelling	Jan. 2026
<ul style="list-style-type: none">Processed high-density LiDAR datasets within a MicroStation and TerraSolid (TerraScan) environment, utilizing a block-based partitioning strategy to manage system memory and perform precise point classification for terrain modelling.	

COMMUNITY INVOLVEMENT

GIS Ambassador Esri Canada	Dec. 2025 - Present
<ul style="list-style-type: none">Promoting geospatial literacy by leading interactive demonstrations for students, utilizing National Geographic MapMaker to visualize complex environmental data and light pollution correlations.Developed an "Applied Problem Solving" curriculum, guiding students through 3D terrain analysis and elevation profiling to simulate civil engineering route optimization in rugged environments.	
Future Strategy Committee Member GANS	Jan. 2026 - Present
<ul style="list-style-type: none">Collaborating with industry leaders to modernize the Geomatics Association of Nova Scotia's mandate, focusing on sustainable governance and the evolving requirements of the provincial geospatial ecosystem.Advocating for early-career professionals by identifying mentorship gaps and recommending strategic partnerships to increase membership value within government, industry, and academia.	

SKILLS

Geospatial: ArcGIS Pro, QGIS, TerraScan, Youwind, MicroStation, Global Mapper

Remote Sensing: LiDAR Point Cloud Classification, 3D Terrain Modelling, Land Usage Analysis

Data Science: RStudio, Python, ETL Processes, Statistical Modelling

Database Management: PostgreSQL, PostGIS, Oracle, SQL Scripting, Schema Design

Web Development: Leaflet, JavaScript, React, HTML5/CSS, Full-Stack Logic, API Integration

Strategic Leadership: Project Management, Technical Writing, Case Studies, Team Leadership