

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

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

Project Manager & Creator (ParkBuddy App)

- Managed the end-to-end project lifecycle, overseeing comprehensive research, database schema design, and successful full-stack application implementation.
- Implemented the internal database structures to support complex application logic and facilitate seamless user data system integration
- Directed front-end design approvals and technical workflows to ensure the final product aligned with established project goals and design specifications.

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 streamlined data management operations.
- Led a development team by establishing weekly project roadmaps and mentoring junior developers in modern front-end development best practices.
- Facilitated technical code reviews and provided architectural guidance to ensure high-quality code standards and optimized system logic.

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 for enhanced system performance.
- Presented comprehensive project scopes to stakeholders, translating technical milestones into clear business value and strategic project goals.
- Optimized project workflows to meet rigorous development deadlines and technical requirements for successful project delivery.

PROJECTS

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.	
Offshore Wind Farm Design & 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.	

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	Dec. 2025 – 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