

# 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 <i>Project Manager &amp; Creator (ParkBuddy App)</i>	Sept. - Dec. 2024
• 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 <i>Project Manager &amp; Backend Developer</i>	May – June 2024
• 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 <i>Web Development Intern (Co-Op)</i>	May – Aug. 2023
• 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

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Point Classification: LiDAR Terrain Modelling	Jan. 2026
<ul style="list-style-type: none"><li>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.</li></ul>	
Youwind Renewable Energy Site Analysis	Nov. 2025
<ul style="list-style-type: none"><li>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.</li></ul>	
Wind Turbine Data Analysis	Nov. 2025
<ul style="list-style-type: none"><li>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.</li></ul>	
Spatial Forestry Database Design & Querying	Nov. 2025
<ul style="list-style-type: none"><li>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.</li></ul>	

## COMMUNITY INVOLVEMENT

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GIS Ambassador   Esri Canada	Dec. 2025 – Present
<ul style="list-style-type: none"><li>Promoting geospatial literacy by leading interactive demonstrations for students, utilizing National Geographic MapMaker to visualize complex environmental data and light pollution correlations.</li><li>Developed an "Applied Problem Solving" curriculum, guiding students through 3D terrain analysis and elevation profiling to simulate civil engineering route optimization in rugged environments.</li></ul>	
Future Strategy Committee Member   GANS	Dec. 2025 – Present
<ul style="list-style-type: none"><li>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.</li><li>Advocating for early-career professionals by identifying mentorship gaps and recommending strategic partnerships to increase membership value within government, industry, and academia.</li></ul>	

## SKILLS

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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