



# JONATHON PREHN

Research Scientist | **CARBON SOLUTIONS LLC**

## PROFILE

Jonathon Prehn is a Research Scientist at CARBON SOLUTIONS LLC working to automate and integrate workflows and better visualize Carbon Solutions LLC analyses results through GIS. Before Carbon Solutions LLC, Jonathon worked in the oil & gas sector and developed GIS tools, web maps and web applications to perform and support risk assessment of distribution and transmission lines, pipeline safety management systems and verification of regulatory compliance.

## CONTACT INFORMATION

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CARBON SOLUTIONS LLC Website:

[www.carbonsolutionsllc.com/](http://www.carbonsolutionsllc.com/)

## EDUCATION & TRAINING

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**B.S.** | Computer Science

[Elmhurst University, Elmhurst, IL](#) | 2015–2019

**B.S.** | Geographic Information Systems

[Elmhurst University, Elmhurst, IL](#) | 2015–2019

## PROFESSIONAL EXPERIENCE

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**Research Scientist** | [CARBON SOLUTIONS LLC](#) | July 2023–Present

**GIS Developer** | [ENTRUST SOLUTIONS GROUP](#) | June 2019 – July 2023

Implementation of spatial risk models for both distribution and transmission integrity management plans as a GIS toolset.

Developed web maps and web applications for project tracking and for visualization of compliance related GIS data.

Automation of various data management, quality control and analysis tasks.

Developed a workflow for optimizing shut-off valve locations to meet compliance and cost constraints via a genetic algorithm.

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