Karen M. McEwen
Data Scientist

KarenMcEwen.engineer@gmail.com

DATA SCIENTIST

- **DATA ANALYSIS & MODELING** across a range of fields including physics, environmental science, chaos theory, and non-profit businesses
- **PROJECT MANAGEMENT EXPERIENCE** in both nonprofit and for-profit businesses
- **COMMUNICATES EFFECTIVELY** with proven ability to complete time-sensitive deliverables; extensive experience with public presentations

EDUCATION

Northwestern University/Evanston, IL
M.S., Civil/Environmental Engineering (1994)

Northwestern University/Evanston, IL
M.S., Engineering Science/Applied Mathematics (1993)

Eden Theological Seminary/St. Louis, MO
M.Div., Theology (2004)

The College of Wooster/Wooster, OH
B.A., Physics with Mathematics minor (1990)

CONTACT

- 216.235.3702
- Cleveland/Akron Area, OH
- karenmcewen.engineer@gmail.com
- linkedin.com/in/karen-mcewen
- karenmcewen.github.io

TECHNOLOGY

Structured Query Language (SQL) ▪ MYSQL ▪ Tableau ▪ C# ▪ ASP .NET ▪ JavaScript ▪ JQuery ▪ Bootstrap ▪ MVC ▪ HTML5 ▪ CSS3 ▪ Object Oriented Programming (OOP) ▪ Responsive Design ▪ GitHub ▪ MS Excel ▪ LabVIEW

AWARDS

National Science Foundation Fellowship
Royal E. Cabell Fellowship (Northwestern University)
Arthur H. Compton Prize in Physics (College of Wooster)

SCIENCE ▪ TECHNOLOGY ▪ ENGINEERING ▪ MATHEMATICS EXPERIENCE

We Can {Code} IT
Cleveland, OH
2017

SOFTWARE DEVELOPMENT APPRENTICE - Engaged in a 5-star coding boot camp, learning full-stack development through intensive projects. Planned, designed, and developed web based apps. Independent and agile development. To-be-completed in January 2018.

Parsons Engineering-Science
Cleveland, OH
2004-2009

ENVIRONMENTAL ENGINEER - Statistical analysis of environmental data. Computer modelling of contaminants in air, soil and water and human health risk assessment at government and industrial sites; project management including proposals, budgeting and scheduling for retail sites; technical writing and editing.

The College of Wooster Physics Department
Wooster, OH
1989-1990

SELF-ORGANIZED CRITICALITY ▪ SENIOR THESIS & SUMMER RESEARCH INTERNSHIP - Created computer models in Pascal and developed unique experiments to study the critical phenomena of avalanches in "sandpiles". Initiated a new research area for the department that continues in 2017. Research published in the American Journal of Physics.

ADDITIONAL EXPERIENCE

United Church of Christ Cleveland, OH & St. Louis, MO	Global Ministries Cleveland, OH	Eden Theological Seminary St. Louis, MO
Ordained Minister 2007-2017 Led 3 congregations through transformational processes. **Student Minister** 1999-2004	**Program Associate for East Asia and Pacific Region** (2005-2007) **Intern, Southern Asia Region** (Summers 2001,2003)	**Project Coordinator & Editor,** World Council of Churches Ecumenical Prayer Cycle (2001- 2003) **Research Assistant** (2000-2004)