Adam Erler

**Data Scientist**

*Data scientist with a wealth of professional experience applying artificial intelligence in education and technology. A constant and continuous lifelong learner with a drive to fully understand and comprehend the issues presented to me. Avid dog lover and 3D printing nerd. Looking to support Booze Allen in their need for a Unity 3D Engineer.*

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**Website: aerler101-1.github.io**

**WORK EXPERIENCE**

# Education Strategy Consulting

### Data Analyst

### Charlottesville, Virgina | 2023 - Present

* Responsible for the data during the entire ELT cycle, finding sources and cleaning them to meet the needs of clients for visualization and research purposes
* Automated API interface for programmatic Google searches, reducing time spent on workflow for related tasks by at least 80%
* Identified and corrected longitudinal issues present in school and student level data
* Maintained database functionality on AWS S3 servers.

**Global Legal Action Network**

Data Scientist

Galway, Ireland | 2022 - present

* Supported the research team in creating an algorithm to identify connections between companies and human rights violations, reducing research time by 99%
* Created cross document referencing tool employing TF-IDF NLP techniques
* Created data visualizations to assist in interpretation of model results
* Implemented API connection to LLM models to facilitate further extrapolation from data and business connections

# Concept Schools

### STEM Teacher, Mentor and Data Analyst

Chicago, Illinois | 2018 - 2023

* Taught: Dual Credit Pre-calculus, AP Physics, Computer Science Principles, Web Design, Unity Based Game Design
* Wrote two grants to fund PLTW and Game Design classes valued at over $100,000
* Instituted data driven procedures and practices improving student outcomes on state tests by at least 5%
* Mentored new staff, meeting daily and supporting achievement of professional goals
* Built a 4 year computer science program with multiple pathways for students to advance in careers in technology and science, which led to students getting certified in Unity 3D, Google, and PLTW
* Partnered with the High Energy Physics department at Purdue University and Fermilab to bring students experience conducting research at the laboratory

**TECHNICAL SKILLS**

* **Programming**: Python, JavaScript, R, MATLAB SQL, HTML/CSS, Unity 3D, XML, Java, C#, SQL
* **Supervised Machine Learning**: linear and logistic regressions,

decision trees, support vector machines (SVM)

* **Unsupervised Machine Learning**: k- means clustering, principal

component analysis (PCA)

* **Data Visualization**: Excel, Seaborn, Matplotlib, Power BI, LaTex, Tableu

**SOFT SKILLS**

* Communication
* Leadership
* Organizational Skills
* Grant Writing
* Time management

## EDUCATION

**M.S. Data Science**

Bellevue University 2023

Bellevue, NB

GPA: 4.0

**M.S. Mathematics**

Purdue University Northwest

2019

Hammond, IN

GPA: 3.95

**B.S. Mathematics**

Southern Illinois University

2014

Carbondale, IL

GPA: 3.65