Adam Erler

**Entry-Level Data Scientist**

*Anticipated graduate and teacher with a wealth of professional experience. 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 for a start in a new career to meet more demanding and exciting challenges.*

**aerler@siu.edu**

**(224) 388-8746**

**Highland, IN**

**WORK EXPERIENCE**

# Concept Schools

### STEM Teacher, Mentor and Data Analyst

Chicago, IL | August 2018 - Present

* Taught: Dual Credit Pre-calculus, AP Physics, Computer Science Principles, Web Design, Game Design (C#)
* Created a Saturday SAT program based on student data. The program used a decision tree to implement targeted curriculum to support students learning needs. The average growth in students who attended the workshop was 110 points across both tests.
* Wrote two grants to fund PLTW and Game Design classes valued at over $100,000 total.
* Mentored new staff, meeting daily and supporting achievement of professional goals.

# Hammond Academy of Science and Technology

### Computer Science and Math Teacher, Department Head

Hammond, IN | August 2014 - July 2018

* Taught: Algebra 1, Geometry, Web Design, Computer Science Principles.
* Developed a math remediation program that lead to the school scoring the second highest in growth in the state of Indiana in 2018 on the 10th grade math ISTEP.
* Collaborated with local business partners to fund a new computer science program earning over $30,000 in donated laptops.

**SONAM Technologies**

Data Analyst

Crown Point, IN | August 2014 - July 2019

* Instituted data pipeline from physical measurements to SQL cloud database.
* Modeled nominal material degradation for comparable surfaces.
* Worked with physical design of the product to improve quality of data by 55%

**PROJECTS**

# Particle Identification

* Aggregated particle data from CMS from over 300 million data points.
* Employed K-Means Clustering to discern signal from background noise.

**TECHNICAL SKILLS**

* **Programming**: Python, JavaScript, R, MATLAB SQL, HTML/CSS
* **Supervised Learning**: linear and logistic regressions,

decision trees, support vector machines (SVM)

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

component analysis (PCA)

* **Data Visualization**: Excel, Google Sheets, Seaborn, Matplotlib, Power BI, LaTex

**SOFT SKILLS**

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

## EDUCATION

**M.S. Data Science**

Bellevue University

June 2021 - September 2023 Bellevue, NB

GPA: 4.0

**M.S. Mathematics**

Purdue University Northwest

September 2016 - May 2019 Hammond, IN

GPA: 3.95

**B.S. Mathematics**

Southern Illinois University

September 2010 - May 2014 Carbondale, IL

GPA: 3.65