

# Connor Adams

Mukilteo, WA



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*Data & Technology*

## EDUCATION

### MS in Applied Mathematics

2021 - 2022

*Cal Poly Pomona*

- Advisor: Dr. Hubertus Von Bremen
- Thesis: "ALASKAN BROWN BEARS AND PACIFIC SALMON FACE THE EFFECTS OF GLOBAL WARMING"

### BS in Applied Mathematics

2016 - 2020

*Cal Poly Pomona*

## WORK EXPERIENCE

### BI Manager

02/2025 - Present

*Temco Logistics*

- Led a cross-functional team to implement a new cloud architecture to ensure scalability, security, and simplify 3rd-party integrations.  
**Hub-&-Spoke | Role-Based Access | VPN | Load Balancing**
- Mentored a team of ML Developers in creating business solutions using Machine Learning for optimizing logistical operations, detecting anomalies within text & financial data, and forecasting workload.  
**Python | Scikit-Learn | Tensorflow | Azure | Databricks**
- Leveraged Role-Based access for developing a solution to personalize reports and applications according to the users' position improving security and user experience.

### BI Automation & ML Lead

04/2024 - 01/2025

*Temco Logistics*

- Trained a series of models for improving employee retention, data accuracy, and workload forecasting. Utilized pre-built models that enhanced data governance, delivery tracking, and extracted information from PDFs & images.  
**Python | Scikit-Learn | Tensorflow | Azure**
- Upgraded legacy applications to utilize the latest technology and migrate infrastructure to the cloud, ensuring scalability and reliability.  
**Azure | Databricks**
- Led projects and BI developers to implement concurrent processing and ensure current data pipelines would expand with the company's growth.  
**Python | Go | Rust | SQL | Databricks | Azure**

### BI Developer

03/2023 - 03/2024

*Temco Logistics*

- Designed and implemented schemas for databases to ensure data normalization, scalability, and efficient query speeds.  
**MySQL | Lucidchart | ERD**

- Developed and maintained robust data pipelines to automate the ETL of data from multiple sources into the data warehouse.  
**Python | JS | SQL | Power Automate | Azure | Domo**
- Designed and developed interactive dashboards and data visualizations using Domo to support business decision-making and performance tracking.

### Graduate Teaching Associate

08/2020 - 12/2022

*Cal Poly Pomona*

- Lecturer for College Algebra and Trigonometry.
- Host activity sections for College Algebra and Introductory Statistics.
- Apply collaborative exercises to accelerate the learning of undergraduate students.
- Establish environments that practice a comfortable and thriving space that allows students the freedom to share and advance their ideas in the classroom.

### Substitute Teacher

08/2021 - 03/2023

*Chino Valley Unified School District*

- Quickly design a lesson and effectively present the information to students.
- Adapt to students learning abilities to ensure the material is absorbed as well as understood.
- Guide and manage students' behavior in the classroom.

### Golf Shop Assistant/Data Analyst Intern

01/2018 - 11/2021

*JC Resorts - Los Serranos Country Club*

- Analyzed company sales data and wrote reports for leadership teams in order to assist in financial decisions.
- Developed and implemented data collection strategies by using excel and CPS software.
- Designed an order processing system for optimizing the ordering of certain products.
- Worked closely with team members to deliver project requirements, develop solutions and meet deadlines.

## RESEARCH & PROJECTS

### Thesis in Mathematical Modeling

08/2021 - 12/2022

*Cal Poly Pomona*

Title: ALASKAN BROWN BEARS AND PACIFIC SALMON FACE THE EFFECTS OF GLOBAL WARMING

Supervision: Under Dr. Hubertus Von Bremen

Developed a variation to the competitive predator-prey model for the interactive species; Alaskan brown bears and pacific salmon. Used Regression analysis to infer on and predict river temperatures in Alaska. Incorporated these models to predict the effects of climate change on the brown bear and salmon populations.

### Using random forest to predict survivors of the titanic

04/2022 - 05/2022

*Kaggle Competition*

Constructed a machine learning model using random forest, linear regression, lasso regularization, and k-fold cross-validation to predict if a passenger on the RMS Titanic survived the sinking of the ship or not.

### Predicting property prices in Taiwan using machine learning

03/2022 - 04/2022

*Cal Poly Pomona*

Implemented a machine learning model to predict resident property prices in Taiwan given specific details features of the properties and sales prices of properties sold in the past. LASSO and RIDGE regression were utilized to minimize RMSE while applying a root transformation on the response variable.

### Cal Poly Pomona's mandatory mask mandate

02/2022 - 03/2022

*Cal Poly Pomona*

Organized a strategic method for collecting a sample that answers the client's question, "Is Cal Poly Pomona meeting the mandatory mask mandate in the library." Used hypothesis testing to see if Cal Poly Pomona follows the mask mandate.

### Minimum point between two orbits

08/2021 - 12/2021

### *Cal Poly Pomona*

Utilized the steepest decent method to find the minimum distance between two orbits. This was taken a step further by analyzing the hessian which revealed the optimal direction to start the steepest descent when the initial staring values reside on an inflection point.

### **Solutions of a system with tridiagonal matrix**

08/2021 - 12/2021

#### *Cal Poly Pomona*

Discovered the closed form for computing the eigenvalues for a specific type of tridiagonal matrix. Explored finding the solutions of a system using Gauss-Elimination w/o pivot, Gauss-Elimination w/ partial pivot, and LU factorization to name a few. Results showed that LU factorization and Gauss-Elimination w/o pivot were the best methods because of their efficiency with large tridiagonal matrices.

### **Coupled systems oscillators**

01/2021 - 05/2021

#### *Cal Poly Pomona*

Explored the stability of a single oscillator and coupled system oscillators using MATLAB. Discussed the similarities and differences between the two types of oscillators. Displayed that the coupled system experiences the same stable cycles as the single oscillator.

### **Logistic equation with delay**

08/2020 - 12/2020

#### *Cal Poly Pomona*

Research in the stability of logistic equations with delay. Utilized MATLAB to observe solutions and designed plots that revealed when the delayed-logistic equation became unstable. Concluded that the equilibrium of the population is its carry capacity.

## **LANGUAGES & TOOLS**

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#### *Programming Languages*

PYTHON, GO, RUST, SCALA, R, MATLAB, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X

#### *Frameworks*

TENSORFLOW, PYTORCH, NODE, REACT, VUE, PYQT

#### *Packages & Libraries*

POLARS, PANDAS, NUMPY, SCIKIT-LEARN, TENSORFLOW, PYTORCH, OPENCV, CARET, TIDYVERSE

#### *Database Management*

MYSQL, DATABRICKS, POSTGRESQL, MONGODB

#### *Analytic Platforms*

EXCEL, DOMO, POWER BI, TABLEAU, GOOGLE ANALYTICS

#### *Cloud Platforms*

AZURE, GCP, AWS

#### *Project Management*

ASANA, ZOHIO, SLACK, TEAMS, NOTION, OBSIDIAN, LUCIDCHART, LUCID-SCALE

#### *DevOps*

GITHUB, GITLAB, DOCKER, KUBERNETES, JENKINS, TERRAFORM

## **TECHNICAL SKILLS**

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Artificial Intelligence

Regression

Data Sourcing

Git

Data Cleansing

CI/CD

Classification

Governance

NLP

Data Engineering

Math Modeling

Validation

Statistical Modeling

Cyber Security

Optimization

Predictive Modeling

Machine Learning

Logistics

Cluster Analysis

Data Visualization

Cloud Architecture

## CORE SKILLS

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Problem Solving   Adaptability   Leadership   Project Management   Creativity   Written & Verbal Communication  
Teamwork   Critical Thinking   Research   Time Management   Conflict Resolution

## EXTRA CURRICULAR ACTIVITIES

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1. President of the Society for Industrial & Applied Mathematics, CPP Chapter
2. Graduate Researcher and Research Presenter
3. Kaggle Competitor in Machine Learning