

# Reis McMillan

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## EDUCATION

**Purdue University, College of Science**

**West Lafayette, IN**

**Bachelor of Science**

**May 2026**

**Majors:** Data Science, Applied Statistics, Mathematical Statistics, Mathematics

**Minors:** Spanish, Economics

**GPA:** 3.4/4.0

**Relevant Coursework:** Abstract Algebra, Advanced Time Series Analysis, Data Mining, Data Structures and Algorithms for Data Science/AI, Econometrics, Foundations of Real Analysis, Game Theory, Introduction to Data Science, Introduction to Machine Learning, Large Scale Data Analytics, Linear Algebra, Machine Learning, Multivariate Calculus, Probability, Python Programming, Statistical Theory, Statistics for Data Science

## PROFESSIONAL EXPERIENCE

**Concrete Engine**

**Remote**

**Founding Engineer**

**December 2024 – Present**

- Engineered a robust solution for handling massive data uploads (exceeding 1TB) by implementing high-performance HTTP routes using Express.js.
- Designed and implemented a comprehensive observability infrastructure for High-Performance Computing (HPC) rigs, leveraging Python, Node.js, MongoDB, and Google Cloud Logging to provide real-time insights into system performance and health.
- Automated the deployment and management of said infrastructure with Ansible, ensuring scalability and maintainability.

**Land O' Lakes Inc.**

**Arden Hills, MN**

**Data Science Intern**

**May – August 2025**

- Developed a pricing optimization solution using a Bayesian epsilon-greedy multi-armed bandit algorithm with a Deep Q-Network (DQN) in TensorFlow, analyzing 500,000+ customer interactions to improve pricing decisions—resulting in an estimated 8.4% increase in purchase likelihood.
- Leveraged Azure Databricks and PySpark for scalable data preprocessing and pipeline development, enabling efficient handling of large datasets.
- Optimized model training by using GPU-accelerated hardware and TensorFlow Graph Execution, reducing runtime from over 24 hours to approximately 2.5 hours.

**Keystone Cooperative**

**Indianapolis, IN**

**Data Science Intern**

**May – August 2024**

- Implemented a Snowflake web app which assisted business users with the identification of customer account groups from over 130,000+ accounts.
- Across 130,000+ accounts, a python script was able to group accounts in less than six minutes by employing disjoint sets/union find data structure and Dijkstra's single-shortest path algorithm.
- Created a recurrent neural network (RNN) which predicted the likelihood of a customer purchase; in total the RNN leveraged a total of 3+ GB of data and successfully predicted 94.3% of historical customer purchases.

## LEADERSHIP AND INVOLVEMENT

**Beta Sigma Psi Fraternity**

**December 2022 – September**

**Recruitment Chairman**

**2024**

- Designed a Python program to scrape Purdue class Instagram profiles to identify potential new members, which alone identified 350+ candidates
- Broke the fraternity recruitment record in Fall 2024, with an 80% increase in new members from the prior year

## RELEVANT SKILLS

- Technical skills: Python, Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow, PyTorch and PySpark libraries; R and Java, SQL, JavaScript and Bash; Git and GitHub; Docker; Node.js; Express.js; Ansible; Google Cloud Platform; Azure Databricks; Snowflake
- Soft skills: Technical communication, leadership, teamwork, and agile (Scrum and Kanban)