

## WORK EXPERIENCE

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**U.S. Venture**, Appleton, WI

**May 2024 – Present**

*Data Scientist I*

- Applied machine learning and statistical techniques to predict customers likely to churn resulting in an expected savings of over \$800,000/year plus 520 hours of FTE wages.
- Implemented a graph network model of a distribution network, enabling discovery of unprofitable customers and opportunities for route optimization.
- Contributing to the ongoing development of the team's MLOps architecture, including pipelines and deployment best practices.

**CONNECT, powered by American Family Insurance**, Remote

**May 2021 – May 2024**

*Software Engineer Intern*

- Furthered the development of an existing metric and logging framework resulting in a 63% increase in the utilization of the framework due to increased ease of implementation.
- Used Oracle SQL to improve business logic, reducing process run time by up to 45%.

## PROJECTS

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### Modeling Student Success (Master's Capstone)

- Used data science and machine learning techniques to identify students who are unlikely to pass first year programming courses or unlikely to return for their second year.
- Enabled the computer science department to make data-informed decisions for the placement and advisement of future students.
- Provided statistical backing for making policy adjustments within the first year courses.

### Baseball Win Predictor

*Visit [mlb.jakestrasler.com](http://mlb.jakestrasler.com) to view*

- ETL Python project that leverages a third-party library to gather Major League Baseball statistics and predict future outcomes based on a game's starting pitchers.
- Utilizes cloud services to execute a daily script that transforms data and stores it in a PostgreSQL instance while also logging structured outputs to an S3 bucket.
- Uses collected data to train a machine learning model to predict future games.
- Implements a Flask website to display the predictions and results.

### Scriptime

- Python library available for install on the Python Package Index that analyzes script performance and notifies developers upon script completion.

## EDUCATION

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**Milwaukee School of Engineering**, Milwaukee, WI

*Master of Science, Machine Learning*

*Bachelor of Science, Software Engineering*

**May 2023 – August 2024**

**September 2019 – May 2023**

## SKILLS

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**Languages:** Python (scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, PyTest), C#, Java

**Development Tools:** Azure, CI/CD, Databricks, Docker, Git, Linux

**Databases:** SQL (Postgres, MySQL, Oracle), NoSQL (MongoDB), Vector (FAISS)