

KYLIE TROUSIL

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WORK EXPERIENCE

Emplify Health by Gundersen

Data Engineer Intern

La Crosse, WI

February 2024 - Present

- Developed and revised SQL scripts to comply with ANSI-92 standards and ensure compatibility within the Databricks environment
- Designed new and enhanced existing Power BI reports to align with updated reporting standards and visualization best practices

NSF REU: Women in Machine-Learning Based Cybersecurity

Research Student

San Jose State University, CA

June 2024 - August 2024

- Generated synthetic malware datasets using advanced generative machine learning models, including GAN, WGAN-GP, and Denoising Diffusion, implemented in Python with TensorFlow and PyTorch
- Evaluated model performance using comprehensive metrics and statistical analysis
- Summarized research findings into reports and presentations for technical and non-technical audiences
- Worked closely with a diverse team

Minnesota Flexible Corporation

Data Analytics Intern

South St Paul, MN

June 2023 - May 2024

- Generated and analyzed routine reports
- Automated outdated reports through SQL database connections and custom query development
- Designed and implemented Power BI dashboards to visualize department specific statistics

UW La Crosse

Research Assistant

La Crosse, WI

September 2023 - May 2024

- Developed and tested a weakly supervised learning model to predict the chance of malignant tumors in breast ultrasound images
- Conducted image preprocessing, feature extraction, and model evaluation using Python and TensorFlow

Green Bay Packaging

Data Analytics Intern

Green Bay, WI

June 2022 - April 2023

- Learned basic SQL and database structure to view and analyze data along with testing Power BI reports
- Created multiple Power BI reports from scratch, currently used in production, by finding and analyzing the data before creating the report and communicating with the business along the way
- Created dashboards within Azure DevOps to view workload statistics
- Gained exposure to many team projects and learned general business practices by helping with all parts of the workflow process

EDUCATION

University of Washington

MS Data Science

Seattle, WA

September 2025 - April 2027

University of Wisconsin - La Crosse

BS Computer Science and BS Applied Mathematics

La Crosse, WI

September 2021 - May 2025

- GPA: 3.94
- Notable coursework: Machine Learning, Operating Systems, Programming Language Concepts, Numerical Methods, Intro to Database Management Systems
- Technical Experiences: Python, C, SQL, Java, R
- 4 year NCAA D3 Athlete in Cross Country and Track and Field

RESEARCH PUBLICATIONS

T. Bao, K. Trousil, Q. D. Tran, F. Di Troia, and Y. Park, "Generating Synthetic Malware Samples Using Generative AI," *IEEE Access*, vol. 13, pp. 59725–59736, 2025. doi:10.1109/ACCESS.2025.3556704

HONORS AWARDS

- Dean's List (every semester)
- 2024 Cross Country Captain
- 2023 All-Academic Cross Country Team